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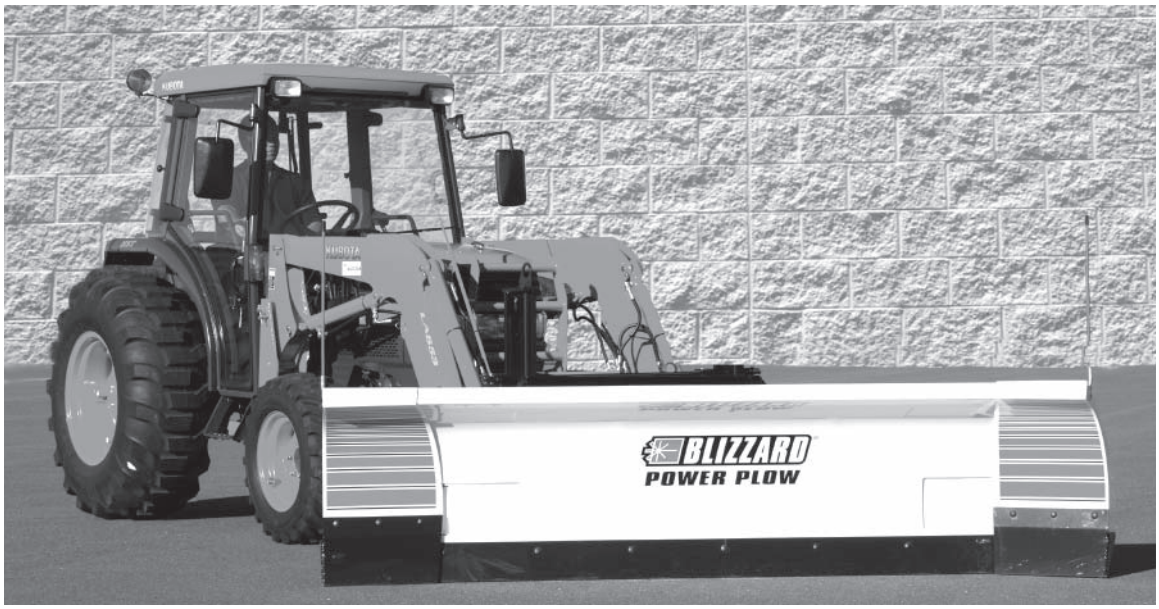
BLIZZARD® SNOWPLOWS



Models 760TR, 810TR, 8100TR, 860TR, 8600TR & 8611TR

Installation Instructions & Owner's Manual

⚠ CAUTION

See your BLIZZARD sales outlet/Web site for specific vehicle application recommendations before installation.

⚠ CAUTION

Read this document before installing the snowplow.

⚠ CAUTION

Read this document before operating or servicing snowplow.

This manual supersedes all editions with an earlier date.

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PREFACE

Congratulations on purchasing the most advanced snowplow available! The POWER PLOW™ snowplow is clearing new trails for innovative design, rugged durability, quality craftsmanship and superior performance. SPEEDWING™ blades create a whole new category for multi-position truck-mounted snowplows. Our innovative products are tested all across the snowbelt.

This manual provides safety, operation and maintenance information for your new BLIZZARD® snowplow. To keep your snowplow in good condition, read and understand this manual and follow its recommendations. Failure to do so may affect your warranty coverage.

When service is necessary, your local BLIZZARD distributor knows your snowplow best. Contact your BLIZZARD outlet for maintenance, service or any other assistance you require.

If you have not already done so, please visit *www.blizzardplows.com* to register your new SPEEDWING or POWER PLOW snowplow!

AUTHENTIC PARTS AND ACCESSORIES

Your BLIZZARD snowplow is a valuable investment. The best way to assure original equipment reliability and efficiency is to purchase only **Authentic Parts and Accessories**. "Will-fit" parts and accessories can alter your snowplow's performance characteristics and may affect your product warranty.

Protect your investment by staying with the best—original BLIZZARD parts and accessories from your local BLIZZARD outlet.

SAFETY DEFINITIONS

⚠ WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious personal injury.

⚠ CAUTION

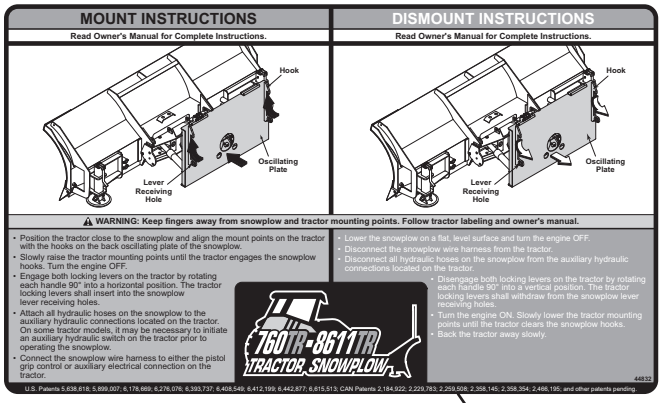
Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTE: Indicates a situation or action that can lead to damage to your snowplow and vehicle or other property. Other useful information can also be described.

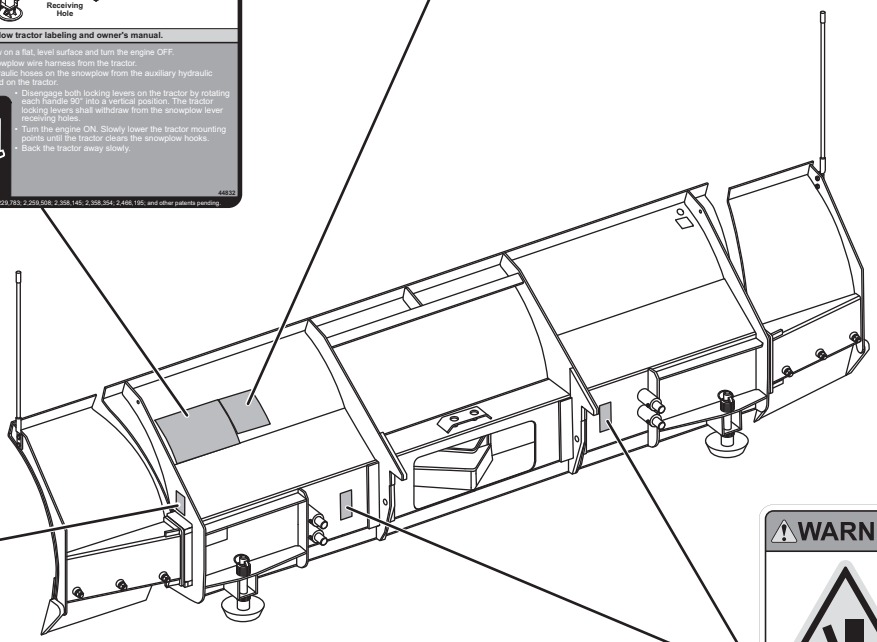
WARNING/CAUTION & INSTRUCTION LABELS

Become familiar with and inform users about the warning and instruction labels on the back of the blade.

NOTE: If labels are missing or cannot be read, see your sales outlet.

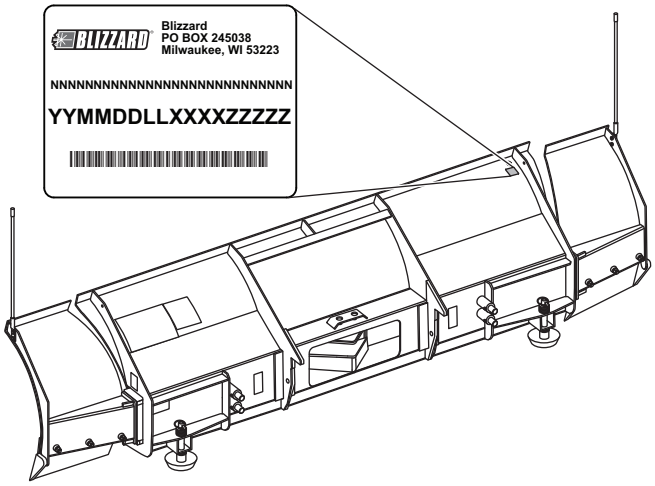

MOUNT INSTRUCTIONS
Read Owner's Manual for Complete Instructions.
Hook
Oscillating Plate
Lever Receiving Hole
DISMOUNT INSTRUCTIONS
Read Owner's Manual for Complete Instructions.
Hook
Oscillating Plate
Lever Receiving Hole
WARNING: Keep fingers away from snowplow and tractor mounting points. Follow tractor labeling and owner's manual.
• Position the tractor close to the snowplow and align the mount points on the tractor with the hooks on the back oscillating plate of the snowplow.
• Slowly raise the tractor mounting points until the tractor engages the snowplow hooks. Turn the engine OFF.
• Engage both locking levers on the tractor by rotating each handle 90° into a horizontal position. The tractor locking levers shall insert into the snowplow lever receiving holes.
• Attach all hydraulic hoses on the snowplow to the auxiliary hydraulic connections located on the tractor. On some tractor models, it may be necessary to initiate an auxiliary hydraulic switch on the tractor prior to operating the snowplow.
• Connect the snowplow wire harness to either the pistol grip control or auxiliary electrical connection on the tractor.
760TR•8611TR TRACTOR SNOWPLOW
• Lower the snowplow on a flat, level surface and turn the engine OFF.
• Disconnect the snowplow wire harness from the tractor.
• Disconnect all hydraulic hoses on the snowplow from the auxiliary hydraulic connections located on the tractor.
• Disengage both locking levers on the tractor by rotating each handle 90° into a vertical position. The tractor locking levers shall withdraw from the snowplow lever receiving holes.
• Turn the engine ON. Slowly lower the tractor mounting points until the tractor clears the snowplow hooks.
• Back the tractor away slowly.
44632
U.S. Patents 5,638,618; 5,899,007; 6,178,669; 6,276,076; 6,393,737; 6,408,549; 6,412,199; 6,442,877; 6,615,513; CAN Patents 2,184,922; 2,229,783; 2,259,508; 2,358,145; 2,358,354; 2,466,195; and other patents pending.

WARNING
Lower blade when vehicle is parked.
Do not exceed GVWR or GAWR including blade and ballast.
CAUTION
Read Owner's Manual before operating or servicing snowplow.
45 mph
Transport speed should not exceed 45 mph (72 km/h). Further reduce speed under adverse travel conditions.
10 mph
Plowing speed should not exceed 10 mph (16 km/h).
WWW.
See your sales outlet/Web site for specific vehicle application recommendations.
59900



POWER PLOW™ & SPEEDWING™ Blades Only (both sides)

Blade Serial Number Label



Code	Definition
YY	2-digit Year
MM	2-digit Month
DD	2-digit Day
LL	2-digit Location Code
XXXX	4-digit Sequential Number
ZZZZZZ	5- to 7-digit Blade Assembly PN

SAFETY PRECAUTIONS

Improper installation and operation could cause personal injury, and/or equipment and property damage. Read and understand labels and the Owner's Manual before installing, operating or making adjustments.

⚠ WARNING

Lower the blade when vehicle is parked. Temperature changes could change hydraulic pressure, causing the blade to drop unexpectedly or damaging hydraulic components. Failure to do this could result in serious personal injury.

⚠ WARNING

The driver shall keep bystanders clear of the blade when it is being raised, lowered or angled. Do not stand between the vehicle and the blade or within 8 feet of a moving blade. A moving or falling blade could cause personal injury.

⚠ WARNING

Do not exceed vehicle operative capacity including the blade. See vehicle rating label.

⚠ WARNING

Never stand, work or reach under lift arms or lift cylinders without employing a lift arm stop or stand.

⚠ WARNING

To prevent accidental movement of the blade, always turn the control OFF whenever the snowplow is not in use. The power indicator light will turn OFF.

⚠ CAUTION

Read Owner's Manual before operating or servicing snowplow.

⚠ CAUTION

Transport speed should not exceed vehicle manufacturer's recommendations. Further reduce speed under adverse travel conditions.

⚠ CAUTION

Plowing speed should not exceed 10 mph (16 km/h).

HYDRAULIC SAFETY

⚠ WARNING

Hydraulic fluid under pressure can cause skin injection injury. If you are injured by hydraulic fluid, get medical attention immediately.

- Always inspect hydraulic components and hoses before using. Replace any damaged or worn parts immediately.
- If you suspect a hose leak, DO NOT use your hand to locate it. Use a piece of cardboard or wood.

FUSES

The electrical and hydraulic systems contain several blade-style automotive fuses. If a problem should occur and fuse replacement is necessary, the replacement fuse must be of the same type and amperage rating as the original. Installing a fuse with a higher rating can damage the system and could start a fire.

PERSONAL SAFETY

- Remove ignition key and put the vehicle in park or in gear to prevent others from starting the vehicle during installation or service.
- Wear only snug-fitting clothing while working on your vehicle or snowplow.
- Do not wear jewelry or a necktie, and secure long hair.
- Wear safety goggles to protect your eyes from battery acid, gasoline, dirt and dust.
- Avoid touching hot surfaces such as the engine, radiator, hoses and exhaust pipes.
- Always have a fire extinguisher rated BC handy, for flammable liquids and electrical fires.

FIRE AND EXPLOSION

⚠ WARNING

Gasoline is highly flammable and gasoline vapor is explosive. Never smoke while working on vehicle. Keep all open flames away from gasoline tank and lines. Wipe up any spilled gasoline immediately.

Be careful when using gasoline. Do not use gasoline to clean parts. Store only in approved containers away from sources of heat or flame.

CELL PHONES

A driver's first responsibility is the safe operation of the vehicle. The most important thing you can do to prevent a crash is to avoid distractions and pay attention to the road. Wait until it is safe to operate Mobile Communication equipment such as cell phones, text messaging devices, pagers or two-way radios.

VENTILATION

⚠ WARNING

Vehicle exhaust contains lethal fumes. Breathing these fumes, even in low concentrations, can cause death. Never operate a vehicle in an enclosed area without venting exhaust to the outside.

BATTERY SAFETY

⚠ CAUTION

Batteries normally produce explosive gases, which can cause personal injury. Therefore, do not allow flames, sparks or lit tobacco to come near the battery. When charging or working near a battery, always cover your face and protect your eyes, and also provide ventilation.

- **Batteries contain sulfuric acid, which burns skin, eyes and clothing.**
- **Disconnect the battery before removing or replacing any electrical components.**

NOISE

Airborne noise emission during use is below 70 dB(A) for the snowplow operator.

VIBRATION

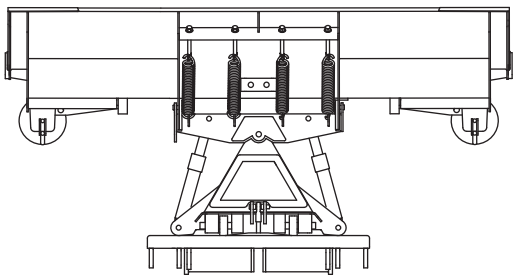
Operating snowplow vibration does not exceed 2.5 m/s^2 to the hand-arm or 0.5 m/s^2 to the whole body.

SNOWPLOW WEIGHTS

Size	Blade Assembly	Wt (lb)	Wt (kg)
7'-6"	760TR	895	406
8'	8100TR	1132	513
8'-6"	8611TR	1728	784
8'	810TR	1132	513
8'-6"	860TR	944	428
8'-6"	8600TR	885	401

Your POWER PLOW™ snowplow is the most advanced and versatile snowplow on the market. The snowplow blade and wings can be adjusted into an infinite number of plowing positions. Review the illustrations below to determine the best position for your plowing needs.

A.



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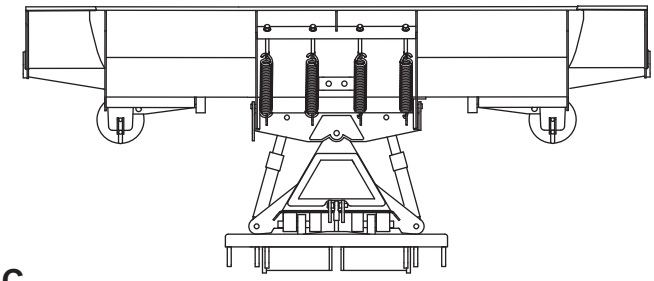
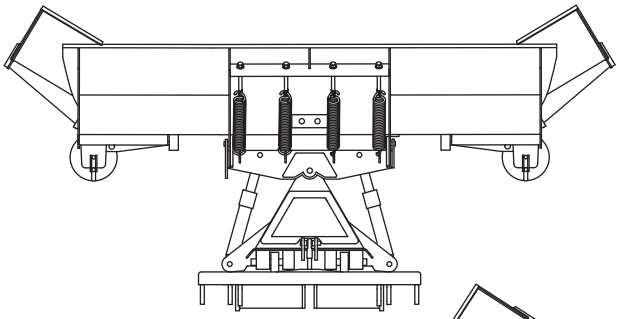


C.



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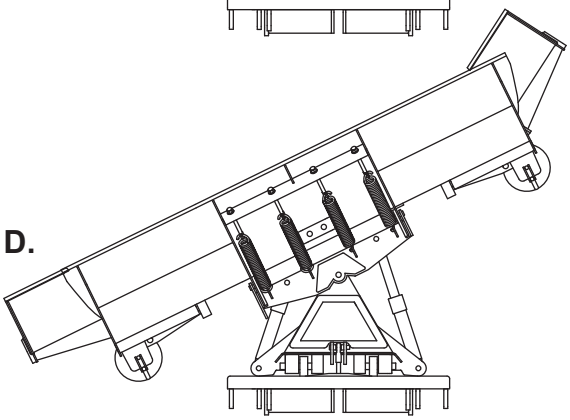


⚠ WARNING

Never use the snowplow attachment to carry people, as a man lift or as a work platform.

⚠ WARNING

When plowing with down pressure, do not cause the front wheels on the tractor to raise above ground.

A. Compact Position
(8' or 8'-6" Blade Width)
- Primary position when transporting the snowplow
- For use in heavy snow conditions with poor visibility, initial clearing and tight quarters
- *Ideal application: residential driveways, small roads*

B. WIDE PASS™ Position
(10' or 11'-3" Blade Width)
- Primary position for clearing large surfaces
- For use in light snow conditions with good visibility, final clearing and clean-up
- *Ideal application: large parking lots, widening roadways*

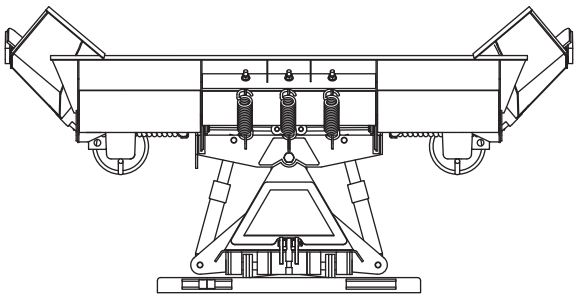
C. BUCKET BLADE™ Position
(9'-3" or 9'-10" Blade Width)
- Primary position for transporting snow
- For use in initial clearing with decent visibility, transporting large volumes of snow, final clean-up
- *Ideal application: roadway intersections*

D. WIDE PASS Position Angled with Wing Forward
- Primary position for accelerated angled plowing
- For use in directional plowing, cornering, diverting snow away from objects or buildings
- *Ideal application: plowing adjacent to buildings, driveway/road intersections*

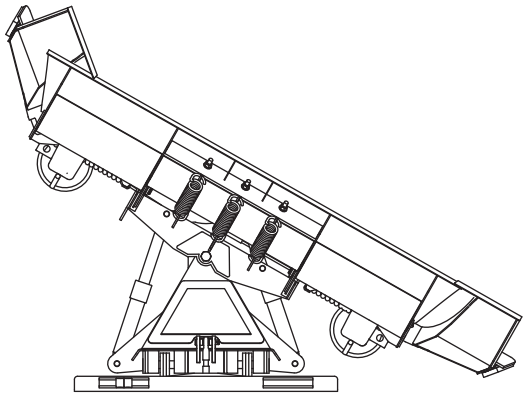
E. Oscillating Feature
- Primarily used for uneven surfaces
- Adjusts to numerous tractor makes and models
- *Ideal application: commercial and residential applications*

Your SPEEDWING™ snowplow is the newest multi-position snowplow on the market. The snowplow blade can be adjusted into a variety of plowing positions. Review the illustrations below for instruction on maneuvering your snowplow.

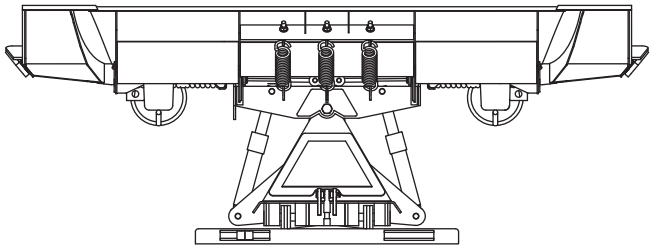
A.



B.



C.



⚠ WARNING

Never use the snowplow attachment to carry people, as a man lift or as a work platform.

⚠ WARNING

When plowing with down pressure, do not cause the front wheels on the tractor to raise above ground.

A. BUCKET BLADE™ Position
(7'-7" or 8'-7" Blade Width)

Automatic position when blade is not angled; creates a scoop and eliminates trails.

- Primary position for transporting snow
- For use in initial clearing with decent visibility, transporting large volumes of snow, final clean-up
- *Ideal application: residential driveways, small roads, roadway intersections*

B. Angled Width w/Trailing Wing
(6'-7" or 7'-10" Blade Width)

An angled blade will automatically extend the trailing wing. The snowplow has reached its maximum angled position when the blade stops moving to the side.

- Primary position for accelerated angled plowing
- For use in directional plowing, cornering, diverting snow away from objects or buildings
- *Ideal application: plowing adjacent to buildings, driveway/road intersections*

C. Back Blade Position
(8'-7" or 9'-9" Blade Width)

Lock the wings into place to create the largest clearing path and get the most out of your wings.

- Primary position for clearing large surfaces
- For use in light snow conditions with good visibility, final clearing and clean-up
- *Ideal application: large parking lots, widening roadways*

UNPACKING & INSPECTION

Your snowplow has been packaged to withstand transit and weather related damage. Fully inspect all components upon receipt of your snowplow. In the event of shipping damage or missing parts, immediately contact our Customer Support Department at 1-888-680-8600.

Begin unpacking and inspection in the following order:

1. Remove the shipping document from the end panel of the pallet wrap. Retain all documentation for your records.

2. All wood framing and polyethylene material should be removed from the pallet for easy access to the snowplow.

3. Due to the odd shaped components and size of several assembly parts, various cable ties and corrugated material are used for scratch resistance and package orientation. Please remove these items prior to assembly.

4. Place the main blade assembly on a flat, level surface.

Once you have inspected all parts and removed all packaging materials, your snowplow is ready to be fully assembled.

Retain this information for your records.

Date of Purchase: _____

Dealer/Distributor: _____

Dealer Phone Number: _____

Snowplow Serial Number: _____

TORQUE CHART

⚠ CAUTION

Read instructions before assembling. Fasteners should be finger tight until instructed to tighten according to the torque chart. Use standard methods and practices when attaching snowplow including proper personal protective safety equipment.

Grade Identification for J429–Grade 5 Bolt

Grade Identification for J429–Grade 8 Bolt

SAE J429 Grade 5 Torque Values				SAE J429 Grade 8 Torque Values			
Nominal Thread Size	Clamp Loads (lb)	Tightening Torque "Lubricated"	Tightening Torque "Dry"	Nominal Thread Size	Clamp Loads (lb)	Tightening Torque "Lubricated"	Tightening Torque "Dry"
1/4-20	2,000	6 ft-lb	8 ft-lb	1/4-20	2,850	9 ft-lb	12 ft-lb
5/16-18	3,350	13 ft-lb	18 ft-lb	5/16-18	4,700	18 ft-lb	25 ft-lb
3/8-16	4,950	23 ft-lb	31 ft-lb	3/8-16	6,950	32 ft-lb	44 ft-lb
7/16-14	6,800	37 ft-lb	50 ft-lb	7/16-14	9,600	53 ft-lb	70 ft-lb
1/2-13	9,050	57 ft-lb	75 ft-lb	1/2-13	12,800	80 ft-lb	107 ft-lb
9/16-12	11,600	82 ft-lb	109 ft-lb	9/16-12	16,400	115 ft-lb	154 ft-lb
5/8-11	14,500	113 ft-lb	151 ft-lb	5/8-11	20,300	159 ft-lb	211 ft-lb
3/4-10	21,300	200 ft-lb	266 ft-lb	3/4-10	30,100	282 ft-lb	376 ft-lb
7/8-9	29,435	321 ft-lb	430 ft-lb	7/8-9	41,550	454 ft-lb	606 ft-lb
1-8	38,600	482 ft-lb	640 ft-lb	1-8	54,540	680 ft-lb	900 ft-lb

Grade Identification for Metric–Grade 8.8 Bolt

Grade Identification for Metric–Grade 10.9 Bolt

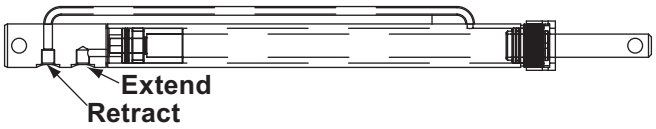
Metric Class 8.8 Torque Values				Metric Class 10.9 Torque Values			
Diameter (mm)	Clamp Loads (lb)	Tightening Torque "Lubricated"	Tightening Torque "Dry"	Diameter (mm)	Clamp Loads (lb)	Tightening Torque "Lubricated"	Tightening Torque "Dry"
5	1,389	3 ft-lb	5 ft-lb	5	1,987	5 ft-lb	7 ft-lb
6	1,965	6 ft-lb	8 ft-lb	6	2,812	8 ft-lb	11 ft-lb
7	2,826	10 ft-lb	13 ft-lb	7	4,044	14 ft-lb	19 ft-lb
8	3,579	14 ft-lb	19 ft-lb	8	5,121	20 ft-lb	27 ft-lb
10	5,672	28 ft-lb	37 ft-lb	10	8,116	40 ft-lb	53 ft-lb
12	8,243	49 ft-lb	65 ft-lb	12	11,796	70 ft-lb	92 ft-lb
14	11,246	77 ft-lb	103 ft-lb	14	16,092	111 ft-lb	148 ft-lb
16	15,882	125 ft-lb	167 ft-lb	16	21,970	173 ft-lb	231 ft-lb
18	19,423	172 ft-lb	229 ft-lb	18	26,868	238 ft-lb	317 ft-lb
20	24,784	244 ft-lb	325 ft-lb	20	34,284	338 ft-lb	450 ft-lb

37° JIC Flare Torque Values			
Turns	**Size**	**ft-lb min–max**	**Assembly Steps**
N/A	-02	6–7	1. Make sure the tubing and threads are clean. 2. Lubricate the threads with 10W hydraulic fluid. 3. Hand tighten the nut/sleeve to approximately 30 in-lb. 4. Make alignment marks on the nut and fitting. 5. Tighten to turn or torque specification. 6. When fully tightened, make a second set of alignment marks at the fully tightened position. **NOTE: Torque values specified are for threads lubricated with 10W hydraulic fluid.** Overtightening will reduce the clamping force resulting in loss of seal and reduction of flow.
N/A	-03	8–9	
2	-04	11–12	
2	-05	14–15	
1-1/2	-06	18–20	
1-1/2	-08	36–39	
1-1/2	-10	57–63	
1-1/4	-12	79–88	
1	-14	94–103	
1	-16	108–113	
1	-20	127–133	
1	-24	158–167	
1	-32	245–258	

O-Ring Boss Torque Values		
Size	**ft-lb min–max**	**Assembly Steps**
-02	6–7	1. Verify the port, O-ring, sealing surfaces and threads are clean and free of damage. 2. Lubricate the threads and the O-ring with 10W hydraulic fluid. 3. For an adjustable ORB, completely back off the locknut and washer. 4. Hand tighten the fitting until it contacts the port spotface. Point the elbow or tee in the desired direction and hold. 5. Torque to specification. **NOTE: Torque values specified are for threads lubricated with 10W hydraulic fluid.**
-03	8–10	
-04	13–15	
-05	17–21	
-06	22–25	
-08	40–43	
-10	43–57	
-12	68–75	
-14	90–99	
-16	112–123	
-20	146–200	
-24	154–215	
-32	218–290	

1. Remove dust cap from both of the slide box cylinders located at the center/rear of the moldboard. Attach adapters (**B60007** for 810TR; **56695** for 8611TR) to both ports on each slide box cylinder. Tighten fittings per torque chart.

NOTE: All of the hydraulic adapters can be found packaged with the manifold assembly.



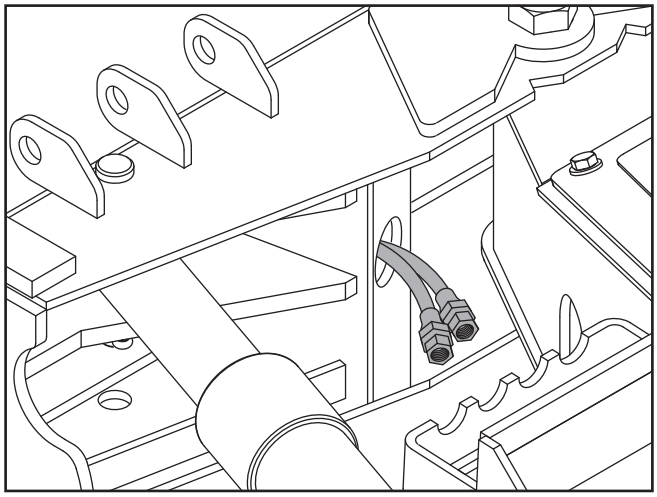
NOTE: The positions for the rod- and base-end slide box hoses. The hoses that operate the retract functions (rod) of the cylinders are closest to the base of each cylinder. The hoses that operate the extend functions (base) of the cylinders are closest to the rod of each cylinder.

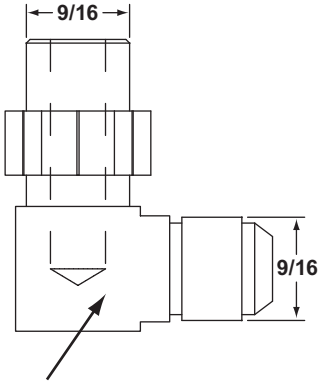
2. Connect hoses (**B60223** for 810TR; **B60224** for 8611TR) to each of the hydraulic adapters on the cylinders. Tighten hoses per torque chart.

NOTE: Review the label on each hose for the appropriate part number.

3. Position the front (top) hole in the A-frame with the middle hole in the pivot beam. Insert cap screw (**50605**) through the top, and secure on the bottom with washer (**B61203**) and nut (**B61008**).

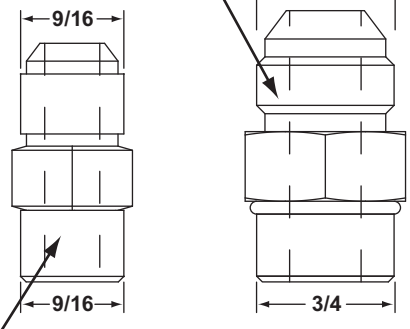
4. Position the pivot beam and A-frame near the mount locations at the rear of the blade. Place the right and left group of hydraulic hoses (connected to the slide box cylinders) through the 1-1/2" diameter rubber grommet openings in the front face of the pivot beam.



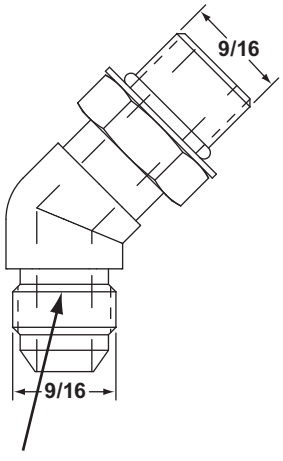


40571
• Angle Cylinders

B60340
• Manifold Port T

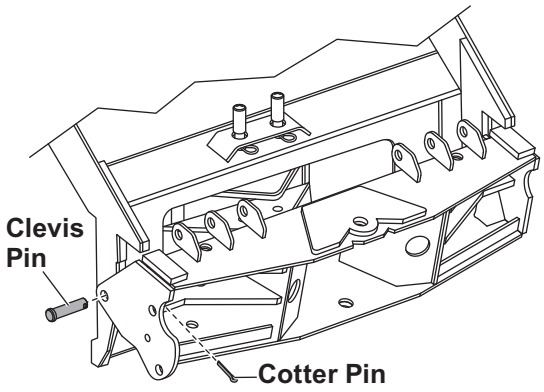


B60007
• Slide Box Cylinders (810 only)
• Manifold Ports P2 & P3
• Manifold Ports #1,2,7,8,9 & 10 (8611 only)



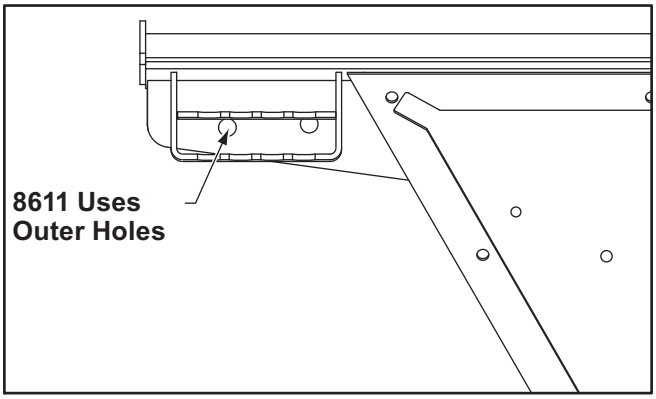
B60272
• Slide Box Cylinders (8611 only)
• Manifold Ports #1,2,7,8,9 & 10 (810 only)

5. Position the pivot beam between the two support ribs until the connecting points on the beam align with those on the snowplow. Insert one 3/4" x 3" clevis pin (**B50069**) through each mounting hole and secure them with 1/4" x 1-1/2" cotter pin (**90601**).



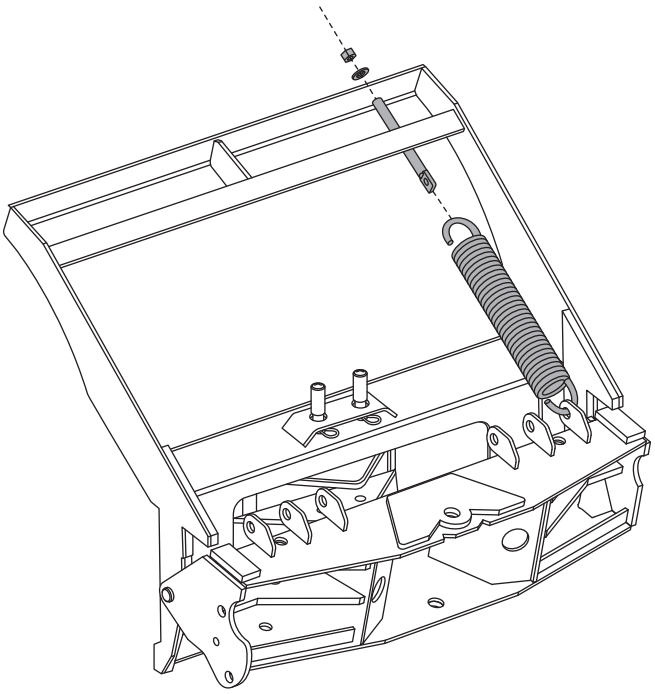
6. Position each angle cylinder with the rod end of the cylinder in the pivot beam and the hydraulic hose port facing away from the A-frame. Secure the cylinder to the pivot beam with a 3/4" x 5" clevis pin (**95739**) and a 1/4" x 1-1/2" cotter pin (**90601**). Extend each cylinder rod until the cylinder base mounting hole aligns with the hole on the A-frame angle cylinder bracket. Insert another clevis pin and secure it with a cotter pin.

NOTE: Be sure to use the proper mounting point when replacing or installing cylinders on 8611TR models.

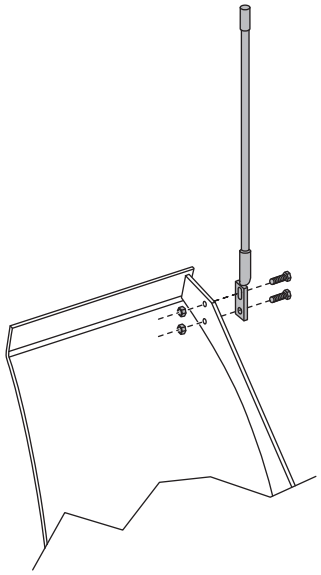


NOTE: The cylinder ports should be facing away from the A-frame.

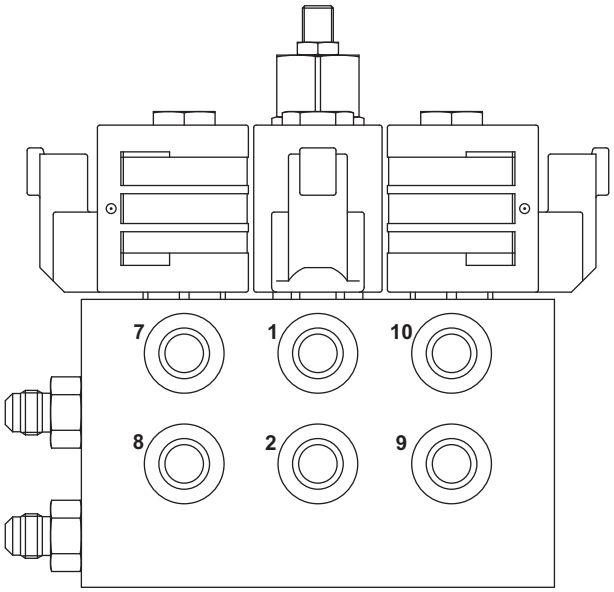
7. Hook each extension spring to the receiving holes on the pivot beam and attach the opposite end of the spring to its respective spade bolts. Install the spade bolts through the extension spring mounting angle on the top rear of the blade. Secure each spade bolt by placing one 5/8" flat washer on the bolt and thread one 5/8" locknut. Tighten each locknut until a piece of paper can pass between the third and fourth coils on the spring.



8. Install the blade guides at each end of the moldboard. Insert the cap screw through the holes at the top of the wing reinforcement rib. Tighten all screws with locknuts.



9. Assemble the manifold. Each of the hose ports on the manifold is covered with stretch wrap. Remove the wrap and install adapter (**56695**) in ports #1, 2, 7, 8, 9 and 10. Tighten fittings per torque chart.

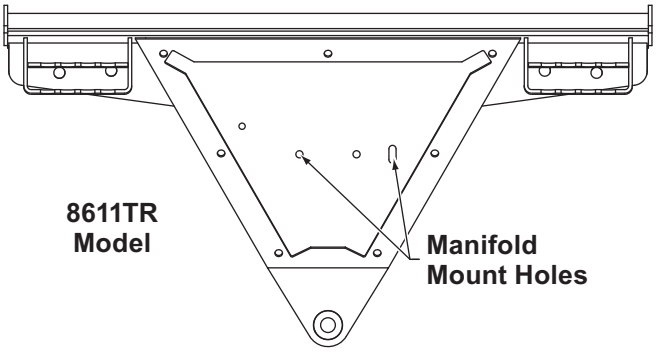


NOTE: DO NOT let any foreign objects enter into the open ports. The valves can become contaminated and greatly hinder the snowplow's performance. Torque to proper specifications.

NOTE: All ports are identified by a stamped number on the manifold. The numbers also identify the hydraulic functions, which can be referenced on the label under the manifold cover.

10. Remove the A-frame cover to gain access to the inside of the manifold compartment.

11. Attach the manifold to the A-frame using cap screws (**B61514**), washers (**29233**) and locknuts (**B61034**).



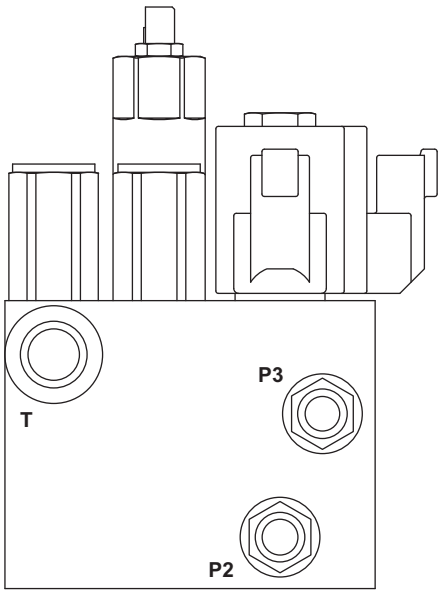
NOTE: When handling the manifold, hold the manifold at the sides of the block. Never handle the manifold by coils. Doing so can cause a solenoid cartridge to bend, causing the cartridge to stick when activated.

12. Route the hydraulic hose groupings from the pivot beam to the access holes located on the sides of the A-frame. Connect the hoses to their respective adapters on the manifold.

13. Remove the dust cap from both of the hydraulic angle cylinder ports and attach one 9/16" 90° adjustable elbow ORB adapter (**40571**) to each port. Each adapter should be angled toward the top of the moldboard. Connect one 3/8" x 26" (36" for 8611) hydraulic hose (**B60223** or **B60224**) to each angle cylinder adapter. Be careful not to overtighten the hose connections. Tighten fittings and hoses per torque chart.

14. Connect the hoses to their respective adapters on the manifold. Tighten hoses per torque chart.

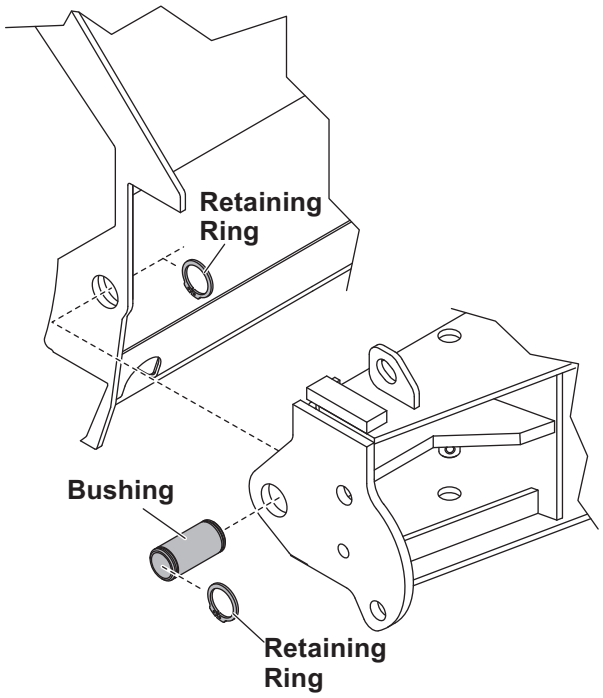
15. Install adapter (**B60340**) to port "T" on the manifold. Connect a 1/2" x 115" hydraulic hose (**B60531**) to the "T" adapter, and connect 3/8" x 115" hydraulic hoses (**B60473**) to the "P2" and "P3" adapters. Tighten fittings and hoses per torque chart.



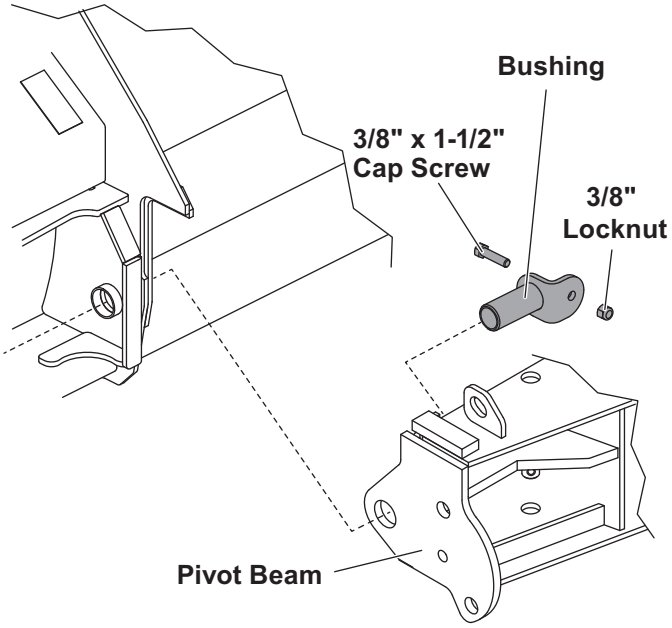
1. Position the front (top) hole in the A-frame with the middle hole in the pivot beam. Insert cap screw (**B61331** for 760TR; **50605** for 860TR and 8600TR) through the top, and secure on the bottom with washer (**B61203**) and nut (**B61008**).

2. Position the pivot beam and A-frame near the mount locations at the rear of the blade. Position the pivot beam between the two support ribs until the connecting points on the beam align with those on the snowplow.

   For 6760TR and 860TR models: Insert one bushing (**B16536**) through each mounting hole and secure them with retaining rings (**B61616**).

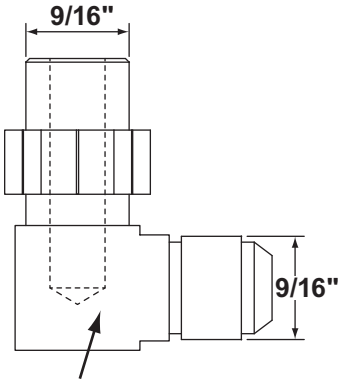


   For 8600TR model: Insert one bushing (**42410**) through each mounting hole and secure it with a 3/8' x 1-1/2" cap screw (**66439**) and 3/8" locknut (**91333**).

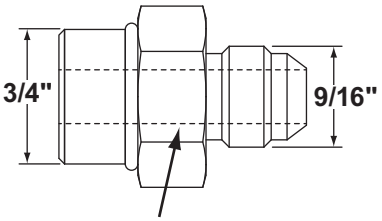


3. Position each angle cylinder with the rod end of the cylinder in the pivot beam and the hydraulic hose port facing away from the A-frame. Secure the cylinder to the pivot beam with a 3/4" x 5" clevis pin (**95739**) and a 1/4" x 1-1/2" cotter pin (**90601**). Extend each cylinder rod until the cylinder base mounting hole aligns with the hole on the A-frame angle cylinder bracket. Insert another clevis pin and secure it with a cotter pin.

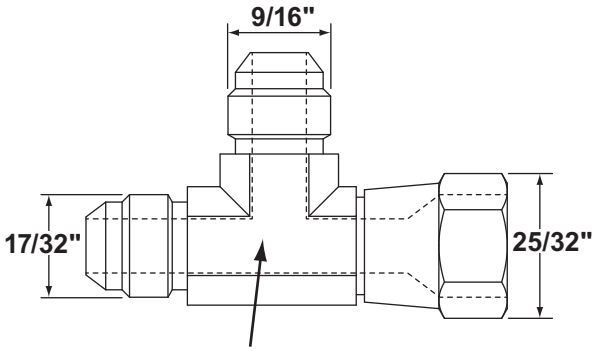
NOTE: The cylinder ports should be facing away from the A-frame.



40571
• Angle Cylinders

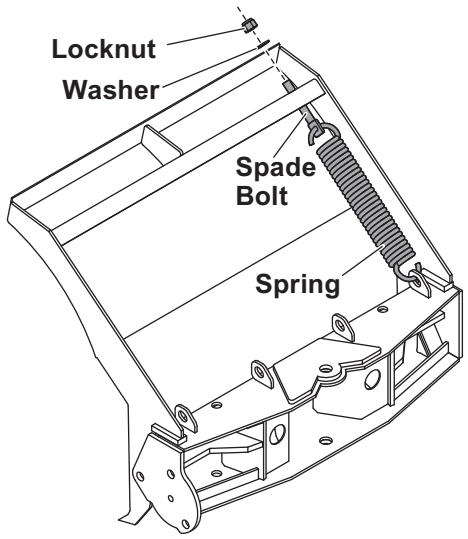


B60403
• Manifold Ports

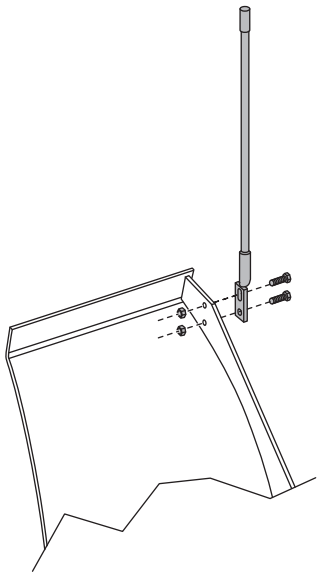


B60539
• Angle Cylinders

4. Hook each extension spring to the receiving holes on the pivot beam and attach the opposite end of the spring to its respective spade bolts. Install the spade bolts through the extension spring mounting angle on the top rear of the blade. Secure each spade bolt by placing one 5/8" flat washer on the bolt and thread one 5/8" locknut. Tighten each locknut until a piece of paper can pass between the 3rd and 4th coils on the spring.



5. Install the blade guides at each end of the moldboard by inserting the cap screws through the holes at the top of the wing reinforcement rib. Tighten all screws with locknuts.



6. Assemble the manifold. Each of the hose ports on the manifold is covered with stretch wrap. Remove the wrap and install adapter (**B60403**) in both ports. Tighten fittings per torque chart.

NOTE: DO NOT let any foreign objects enter into the open ports. The valves can become contaminated and greatly hinder the snowplow's performance. Torque to proper specifications.

NOTE: All of the hydraulic adapters can be found packaged with the manifold assembly.

7. Remove the A-frame cover to gain access to the inside of the manifold compartment.

8. Attach the manifold to the A-frame using cap screws (**94498**), washers (**B61039**) and locknuts (**91331**).

NOTE: When handling the manifold, hold the manifold at the sides of the block.

9. Connect one 3/8" x 36" hydraulic hose (**B60224**) to each adapter on the manifold. Route the hoses out through the access holes located on the sides of the A-frame, with one hose going out each side. Be careful not to overtighten the hose connections. Tighten hoses and fittings per torque chart.

NOTE: Review the label on each hose for the appropriate part number.

10. Reinstall A-frame cover by aligning the holes in the cover with those on the A-frame and securing it with 3/8" x 1-1/2" cap screws and 3/8" washers.

11. Remove the dust cap from both of the hydraulic angle cylinder ports and attach one 9/16" 90° adjustable elbow ORB adapter (**40571**) to each port. Each adapter should be angled toward the top of the moldboard. Connect one run tee (**B60539**) to each elbow.

12. Connect one hydraulic hose from the A-frame compartment to each angle cylinder. Be careful not to overtighten the hose connections. Tighten fittings and hoses per torque chart.

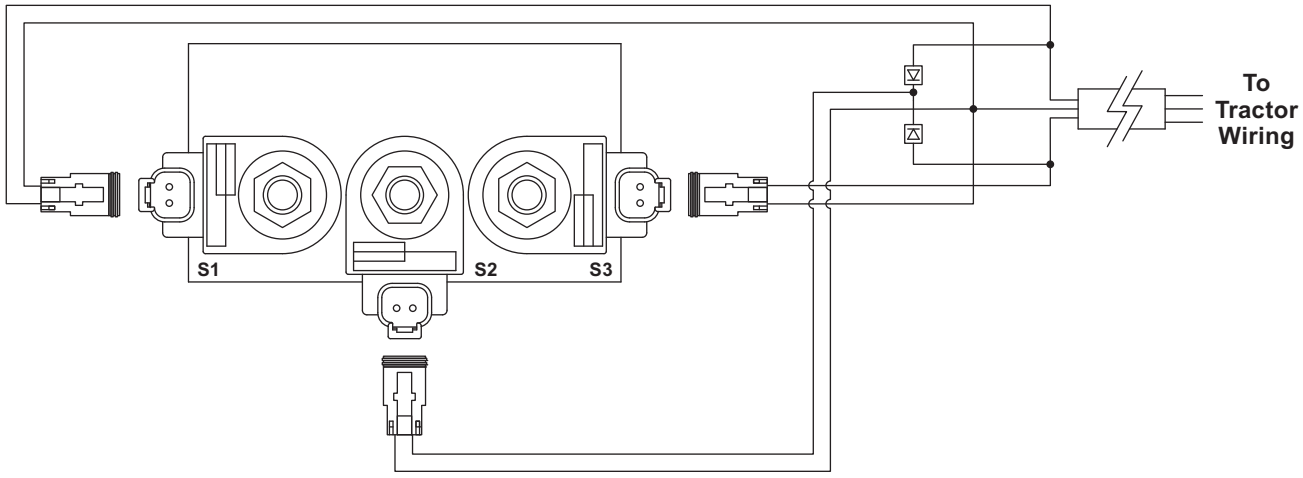
13. Connect one 3/8" x 115" hydraulic hose (**B60473**) to each angle cylinder run tee. Be careful not to overtighten the hose connections. Tighten fittings and hoses per torque chart.

14. On each side of the blade, insert a cable through the pivot bushing from the center, then pin the cable onto the A-frame extensions. Slide the cable through the spring, and add a washer (760TR and 860TR models only) and nut. Adjust the nuts on the cable at full angle so that the wing stops just touch the outside moldboard ribs.

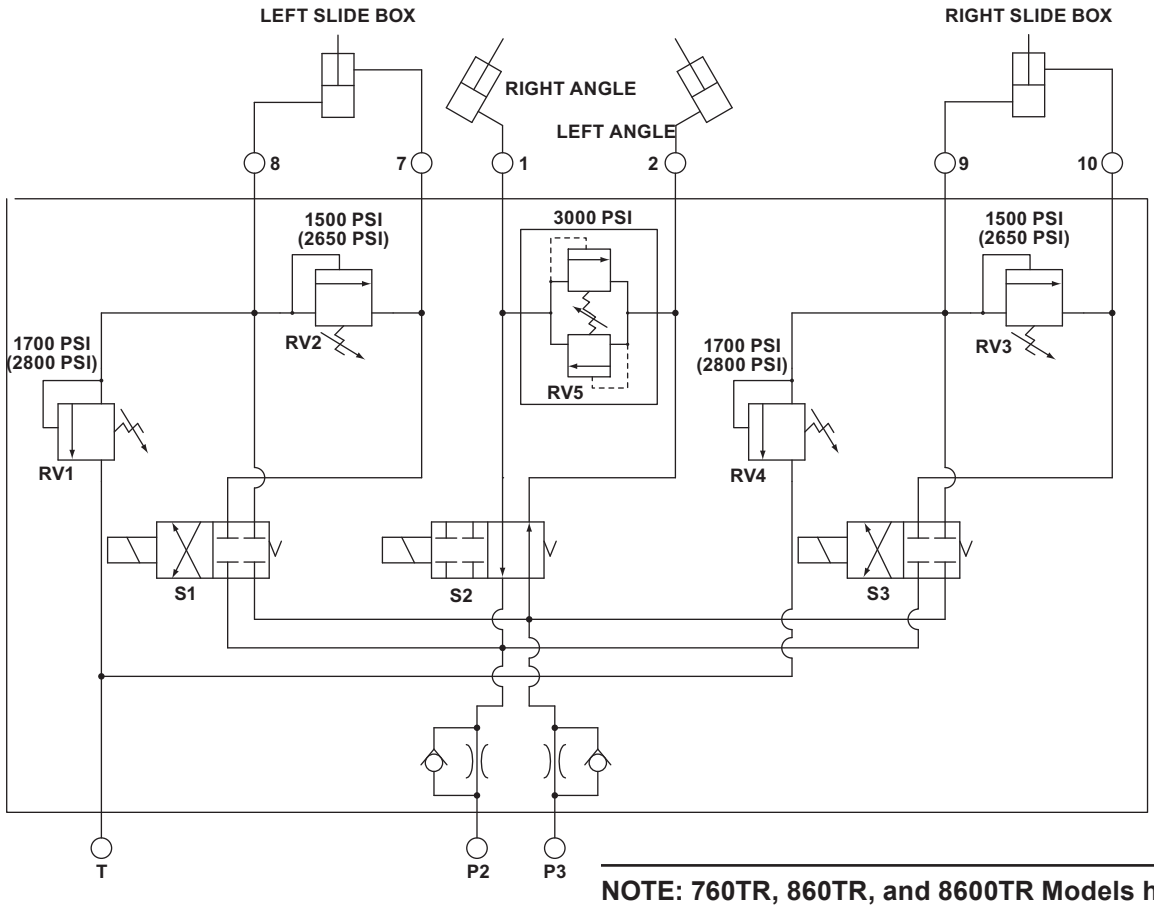
NOTE: Too much adjustment will cause the wings to stop before the snowplow is fully angled and could stretch the cables.

Adjust the cables with the blade centered, then angle the blade to see if the stops are touching. Attach a jam nut to lock in the cable adjustment.

ELECTRICAL SCHEMATIC



HYDRAULIC SCHEMATIC

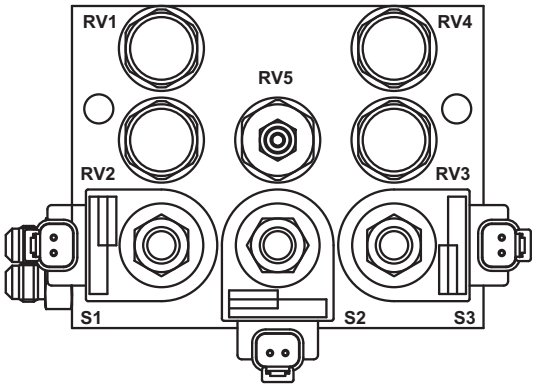


NOTE: Where applicable, Model 8611 values are in parentheses.

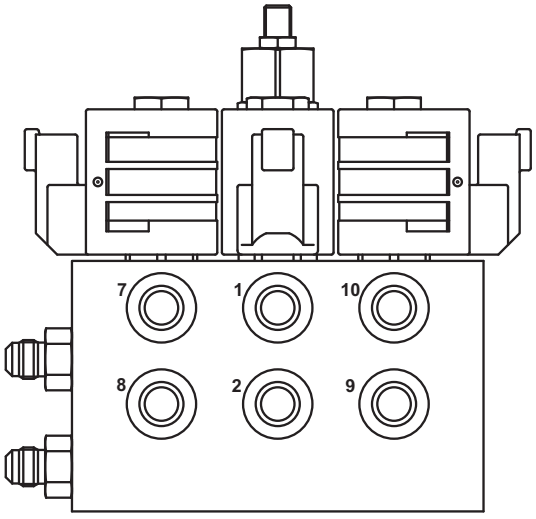
NOTE: 760TR, 860TR, and 8600TR Models have no solenoids and require no electrical connections between the tractor and the snowplow. One hose from each angle cylinder connects to the 760TR and 860TR manifolds to provide wing pressure relief.

Hydraulic Valve & Hose Port Guide

Models 810TR & 8611TR



NOTE: Pressure lines P2 & P3 and return line / auxiliary wing relief T are not illustrated. All three are located on the left side of the manifold in the diagram shown above. Pressure lines P2 & P3 also contain orifice check valves.



Recommended for machines equipped with auxiliary hydraulics having a flow rated at 4–30 gallons per minute (gpm) and a maximum pressure rating of 3,000psi.

HYDRAULIC HOSES	
Port	**Function**
1	Passenger-Side Angle Cylinder
2	Driver-Side Angle Cylinder
7	Passenger-Side Slide Box Retract
8	Passenger-Side Slide Box Extend
9	Driver-Side Slide Box Extend
10	Driver-Side Slide Box Retract
RELIEF VALVES	
Valve	**Function**
RV1	Driver-Side Wing Pressure Relief
RV2	Driver-Side Wing Anti-Cavitation
RV3	Passenger-Side Wing Anti-Cavitation
RV4	Passenger-Side Wing Pressure Relief
RV5	Angle Relief
PRESSURE LINES	
Line	**Function**
P2	Pressure Line
P3	Pressure Line
T	Return Line / Auxiliary Wing Relief
NOTE: Energize the following solenoids for the functions:	
S1	Passenger-Side Slide Box Cylinder
S2	Passenger- & Driver-Side Slide Box Cylinders
S3	Driver-Side Slide Box Cylinder

BLIZZARD®

Milwaukee, Wisconsin 53224 **29328**

NOTE: 760TR, 860TR, and 8600TR Models have only one relief valve (PN B60168 – 3000 psi) and no solenoids. One hose from each angle cylinder connects to the 760TR and 860TR manifolds to provide wing pressure relief.

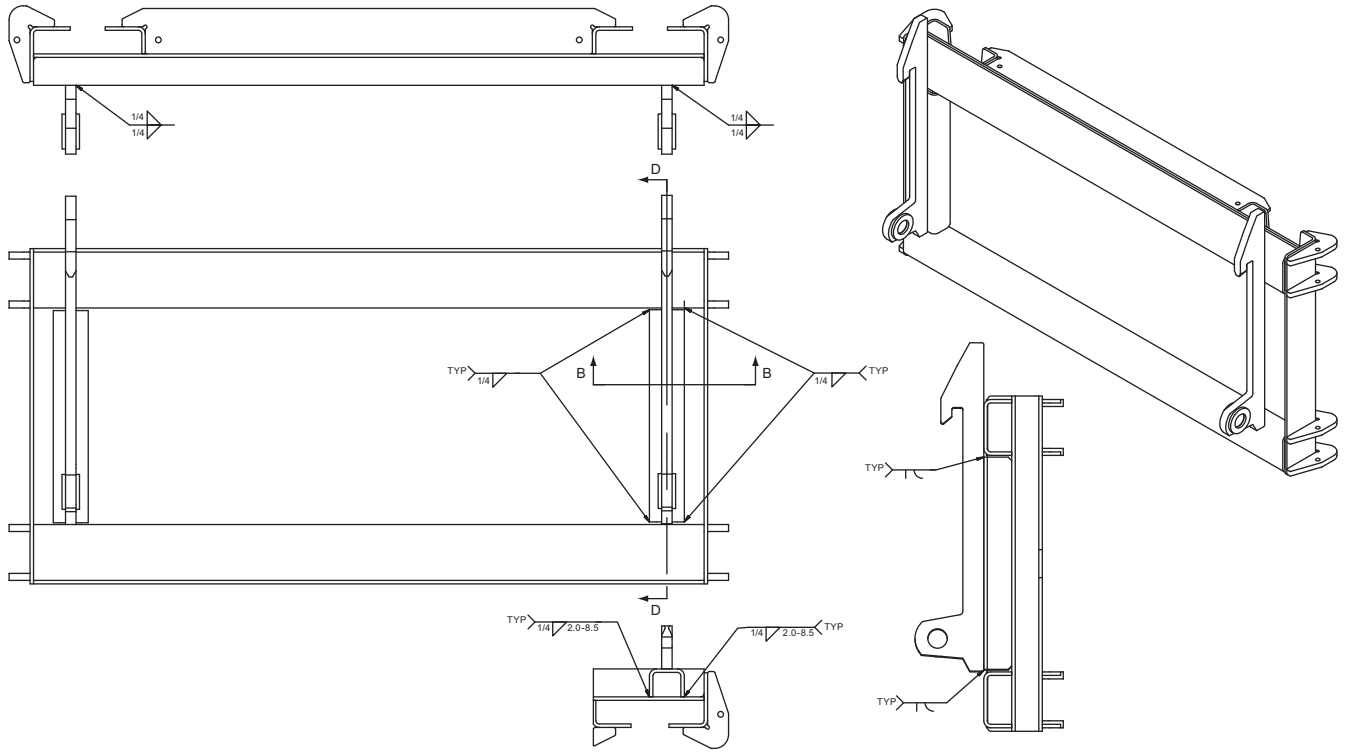
OSCILLATING PLATE ASSEMBLY – ALL MODELS

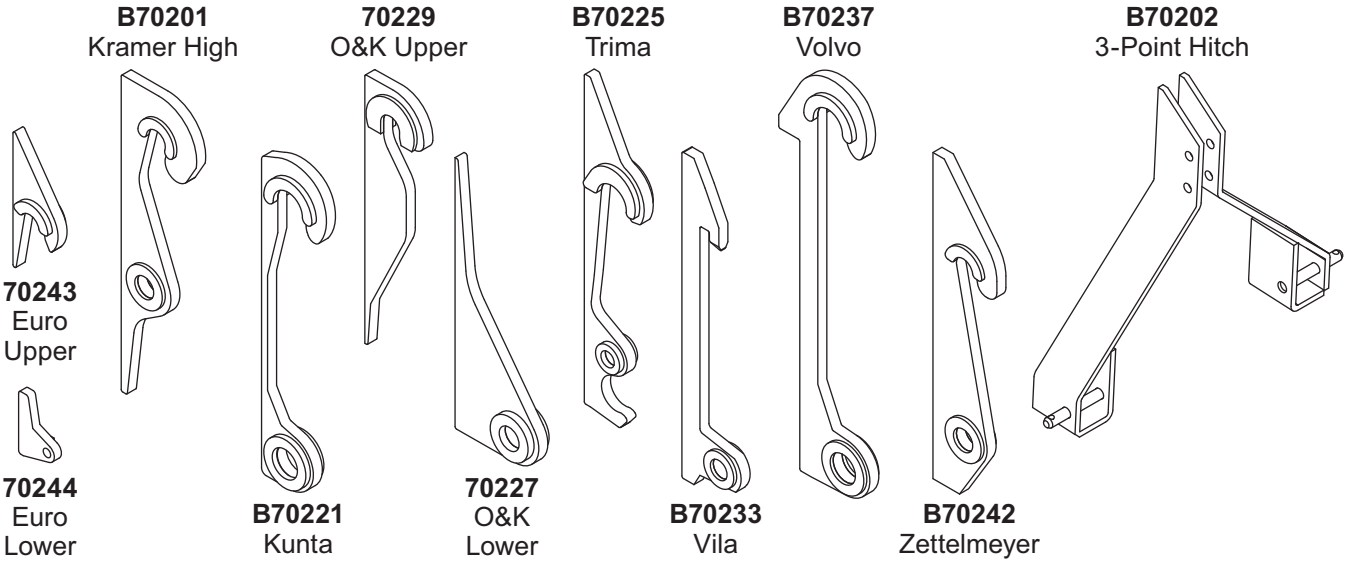
1. Attach the oscillating plate to the tractor now.

2. Route the loose hoses (from Ports "T", "P2" and "P3" on 810TR and 8611TR models; from angle rams on 760TR, 860TR and 8600TR models) through the clamp on left side of oscillating plate.

NOTE: Route the hoses so they do not get pinched during use.

The tractor-specific hooks come pre-welded on the oscillating plate assembly. Refer to the illustrations below for hook identification. If welding the tractor-specific hooks is necessary, measure the distance on the tractor to determine appropriate placement of the hooks on the oscillating plate. Refer to the illustration below for weld specifications.

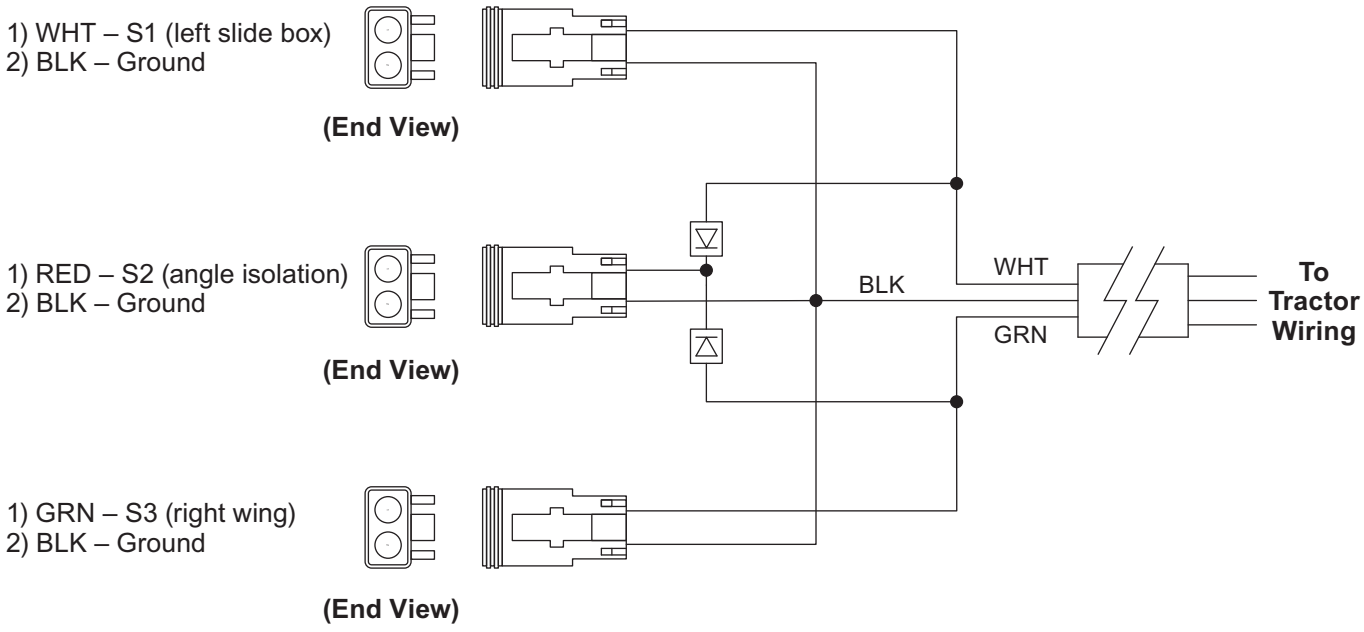




NOTE: 760TR, 860TR and 8600TR Models do not require electrical connections between the tractor and the snowplow.

1. Connect the coil harness to the solenoids according to the illustration below. Feed the opposite end of the harness through the top access hole in the A-frame, and route the harness into the tractor making sure to secure it so it will not get pinched during use.
2. Connect the tractor end of the coil harness to the tractor's auxiliary electrical system according to the vehicle's owner's manual or service manual.
3. Complete the assembly by reattaching the A-frame cover. Align the holes in the cover with those on the A-frame and secure it with 3/8" x 1-1/2" cap screws and 3/8" washers.

TR COIL HARNESS (B62264)

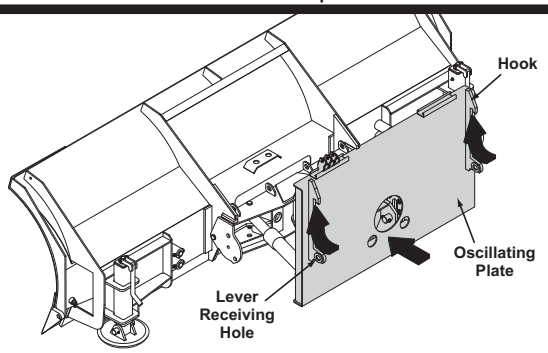


Prior to operating your snowplow, review the Mount and Dismount Instructions label on the back of the driver-side moldboard.

NOTE: If at any time the Mount and Dismount Instructions label, or any other label attached to your snowplow, becomes illegible, promptly replace it.

MOUNT INSTRUCTIONS

Read Owner's Manual for Complete Instructions.



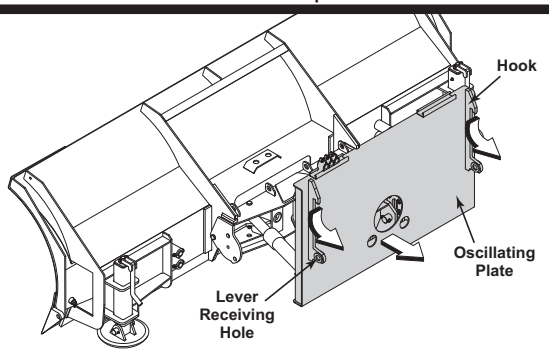
⚠ WARNING: Keep fingers away from snowplow and tractor mounting points. Follow tractor labeling and owner's manual.

- Position the tractor close to the snowplow and align the mount points on the tractor with the hooks on the back oscillating plate of the snowplow.
- Slowly raise the tractor mounting points until the tractor engages the snowplow hooks. Turn the engine OFF.
- Engage both locking levers on the tractor by rotating each handle 90° into a horizontal position. The tractor locking levers shall insert into the snowplow lever receiving holes.
- Attach all hydraulic hoses on the snowplow to the auxiliary hydraulic connections located on the tractor. On some tractor models, it may be necessary to initiate an auxiliary hydraulic switch on the tractor prior to operating the snowplow.
- Connect the snowplow wire harness to either the pistol grip control or auxiliary electrical connection on the tractor.

760TR-8611TR TRACTOR SNOWPLOW

DISMOUNT INSTRUCTIONS

Read Owner's Manual for Complete Instructions.



- Lower the snowplow on a flat, level surface and turn the engine OFF.
- Disconnect the snowplow wire harness from the tractor.
- Disconnect all hydraulic hoses on the snowplow from the auxiliary hydraulic connections located on the tractor.
- Disengage both locking levers on the tractor by rotating each handle 90° into a vertical position. The tractor locking levers shall withdraw from the snowplow lever receiving holes.
- Turn the engine ON. Slowly lower the tractor mounting points until the tractor clears the snowplow hooks.
- Back the tractor away slowly.

44832

U.S. Patents 5,638,618; 5,899,007; 6,178,669; 6,276,076; 6,393,737; 6,408,549; 6,412,199; 6,442,877; 6,615,513; CAN Patents 2,184,922; 2,229,783; 2,259,508; 2,358,145; 2,358,354; 2,466,195; and other patents pending.

1. To test all of the functions, your snowplow needs to be properly attached to the tractor. Refer to the Mounting and Dismounting label on the back of the snowplow.

2. Complete the hydraulic connections with the tractor turned OFF.

NOTE: Due to the various makes and models of tractors available, hydraulic couplings for the auxiliary hydraulic connections are not provided. Consult your tractor's owner's manual for the appropriate couplings needed.

For 810TR and 8611TR Models: Connect the couplings to the loose hoses coming from the pressure ports ("P2" and "P3") and the tank port ("T") on the manifold.

For 760TR, 860TR, and 8600TR Models: Connect the couplings to the loose hoses coming from each ram.

Complete the hydraulic installation by making the appropriate connections at the tractor.

3. Start the tractor and begin to initiate the blade functions.

NOTE: Depending on the tractor model, it may be necessary to turn ON the tractor's auxiliary hydraulic switch prior to operating the snowplow.

Activate each function of the snowplow.

For 810TR and 8611TR Models: Extend and retract the driver-side wing a few times, then extend and retract the passenger-side wing. Angle the blade left and right a few times.

For 760TR, 860TR, and 8600TR Models: Angle the blade left and right a few times.

Upon initiating the snowplow functions, you may notice a snowplow function is slow or delayed. The hydraulic fluid is filling the cylinders and replacing air in the system. Monitor the hydraulic fluid level in your tractor and fill as necessary.

NOTE: This snowplow uses the tractor controls for an emergency stop. See tractor manual for details.

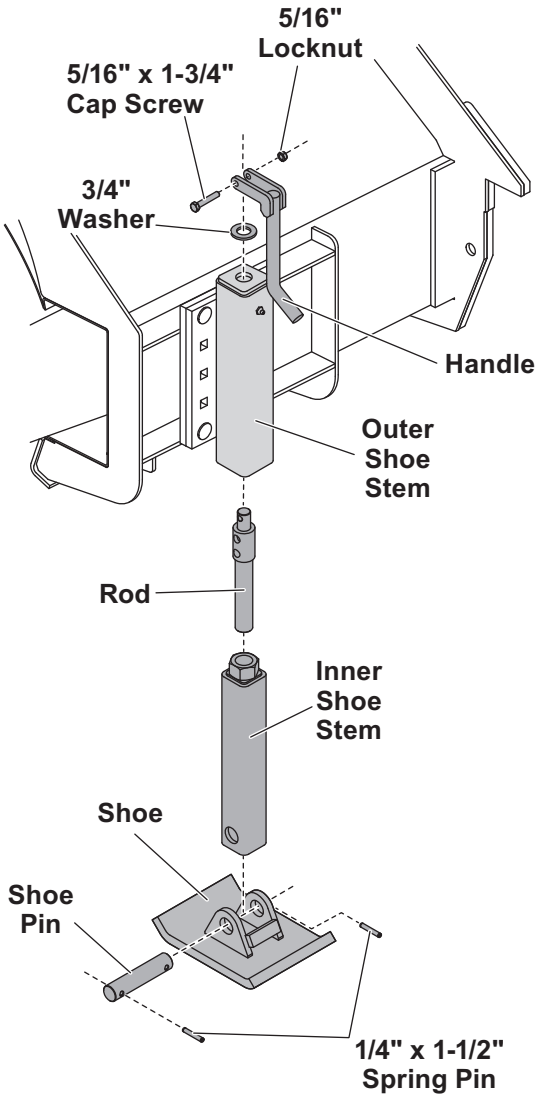
ADJUSTABLE SNOWPLOW SHOE ASSEMBLY – ALL MODELS

⚠ WARNING

Blade can drop unexpectedly. Place the blade on jack stands. Failure to do so could result in serious personal injury.

With the snowplow fully assembled and operational, install the adjustable plow shoes.

1. Raise the snowplow 6" to 12" off the ground, turn the tractor OFF and, from in front of the blade, place jack stands or sturdy blocking under the cutting edge.
2. Turn the tractor ON and lower the blade onto the jack stands or blocking. Turn the tractor OFF.
3. Thread the adjustable shoe rod into the inner shoe stem.
4. Attach the shoe to the inner shoe stem using the shoe pin and two 1/4" x 1-1/2" spring pins.
5. Slide the inner shoe stem up into the outer shoe stem.
6. Place a 3/4" washer onto the adjustable shoe rod, then attach the handle to the rod using a 5/16" x 1-3/4" cap screw and 5/16" locknut.
7. Turn the tractor ON. Raise the blade slightly from the jack stands. Turn the tractor OFF and remove the jack stands.
8. Stand 8 feet clear of the blade when checking the height adjustment of the cutting edge to the road surface.
9. Turn the handle clockwise to lower the shoe and turn the handle counterclockwise to raise the shoe. Lock the handle down against the outer shoe stem when adjustment is complete.



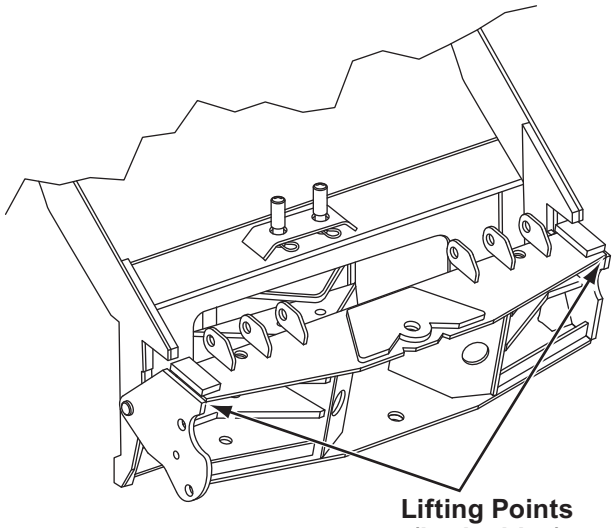
Maintenance	Periodically	Yearly
Check fasteners for tightness. Torque to specifications.	X	
Check hoses for wear and leaks.	X	
Check cylinders for leaks; inspect rod ends for corrosion & pitting.	X	
Check cables for wear or fraying (760TR and 860TR Models only).	X	
Lubricate all exposed cylinder rod ends with liquid white lithium grease to prevent corrosion.		X
Check cutting edges and plow shoes for wear.	X	
Clean and lubricate all electrical plugs and connections with dielectric grease. Clean and install all dust caps prior to storing.	X	X
Lubricate all pins and bushings, inner slide box and A-frame latch with NLGI Grade 2 multi-purpose lithium complex grease with molybdenum (MPGM) to maintain consistent operation.	X	X
Clean and paint all scratches or exposed metal with BLIZZARD® touch-up paint.	X	X
Check the hydraulic fluid level. Never mix different types of fluid.	X	
Change the hydraulic fluid as specified in your tractor owner's manual.		X
Check the trip spring adjustment. Properly adjusted tension will allow a sheet of paper to pass between the 3rd and 4th coils of the spring.	X	
Adjust the wing spring as needed or install an optional second extension spring for increased return speed.	X	
Pressure wash and dry the entire snowplow prior to storing.		X
Cover the snowplow with a tarp if stored outside. This will protect your plow from sun fading and inclement weather which can lead to accelerated corrosion.		X

REMOVING FROM STORAGE

1. Perform all regular maintenance.
2. Replace the hydraulic fluid in the hydraulic system. Prolonged storage could result in condensation build-up.
3. Follow the mounting procedure on the Mounting and Dismounting label.
4. Initiate all of the functions and test before using.

LIFTING

To lift and move this snowplow, attach chain fall grab hooks to outside pivot beam area shown. Always follow recommended lift warnings and procedures. See the following page for snowplow weights and dimensions.

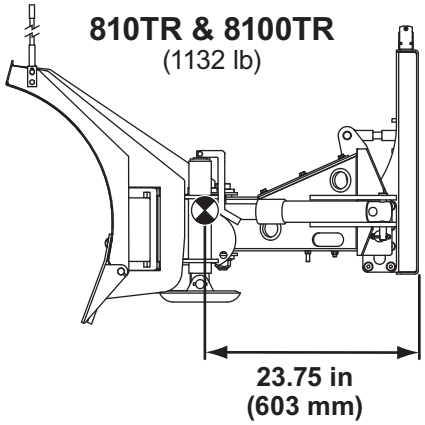


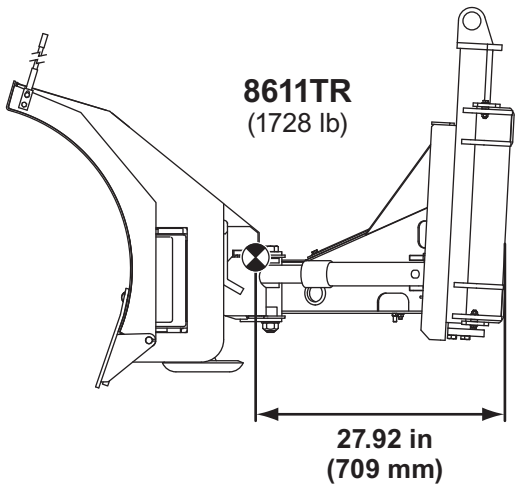
Lifting Points (both sides)

TECHNICAL SPECIFICATIONS & CENTER OF GRAVITY INFORMATION
810TR, 8100TR & 8611TR MODELS

Part	Specification	810TR & 8100TR	8611TR
Moldboard	Length	96" (8')	102" (8'-6")
	Thickness	12 ga	11 ga
	Height	31"	34"
	Reinforcement	4 Ribs @ 1/4"	
	Cutting Edge	1/2" x 6"	5/8" x 6"
	Finish	Powder Coat White	
	Trip Mechanism	(4) 3/8" Hooked Extension	(6) 3/8" Hooked Extension
Wings	Length	12"	23"
	Thickness	11 ga	7 ga
	Height	31"	34"
	Reinforcement	1 Rib @ 1/4"	
	Cutting Edge	1/4" x 10" T1	3/8" x 12-1/2" T1
	Finish	Powder Coat White	
A-Frame	Material	1/4" & 5/16" Mild Steel	
	Cover	1/4" Mild Steel w/Non-Skid Texture	
	Finish	Powder Coat Black	
Manifold	Construction	Red Anodized Aluminum	Black Anodized Aluminum
	Valves	Electro-Hydraulic Cartridge	
Cylinders	Angle Cylinders	2	
	Stroke	10"	12"
	Ram Diameter	1-3/4"	2"
	Bore Diameter	2"	2-1/4"
	Slide Box Cylinders	2	
	Stroke	13-15/16"	18-7/16"
	Ram Diameter	1"	1-1/8"
	Bore Diameter	1-1/2"	1-3/4"
Snowplow Specs	Weight*	1132 lb	1728 lb
	Compact Width	96" (8')	102" (8'-6")
	WIDE PASS™ Width	120" (10')	132" (11'-3")
	BUCKET BLADE™ Width	111" (9'-3")	118" (9'-10")
	Adjustable Plow Shoes	(2) Heavy-Duty Cast Steel	
	Mount Mechanism	Universal Attachment Plate	
	Control	Wired into Tractor System	

* Weight does not include hydraulic fluid.

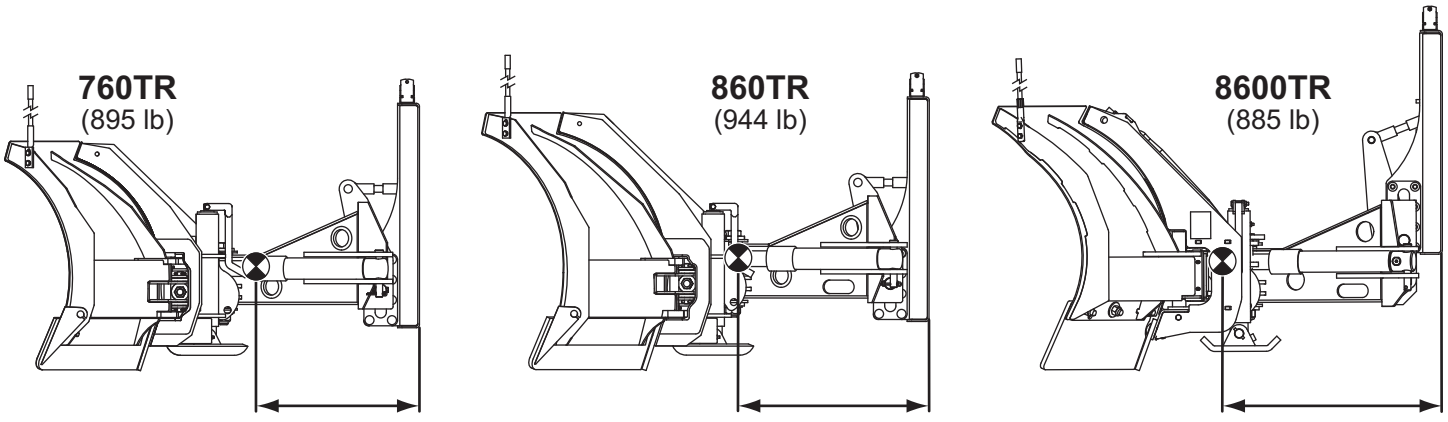




TECHNICAL SPECIFICATIONS & CENTER OF GRAVITY INFORMATION
760TR, 860TR & 8600TR MODELS

Part	Specification	760TR	860TR	8600TR
Moldboard	Length	92" (7'-6")	102" (8'-6")	
	Thickness	12 ga	12 ga	
	Height	25.5"	29.5"	
	Reinforcement	4 Ribs @ 1/4"	4 Ribs @ 1/4"	
	Cutting Edge	3/8" x 6"	1/2" x 6"	
	Finish	Powder Coat White	Powder Coat White	
	Trip Mechanism Springs	(3) 3/8" Hooked Extension	(4) 3/8" Hooked Extension	
Wings	Length	15.5"	17.5"	
	Thickness	12 ga	12 ga	
	Height	25.5"	29.5"	
	Reinforcement	2 Ribs @ 3/16"	2 Ribs @ 3/16"	
	Cutting Edge	3/8" x 6"	1/2" x 6"	
	Finish	Powder Coat White	Powder Coat White	
A-Frame	Material	1/4" & 5/16" Mild Steel		
	Cover	1/4" Mild Steel w/Non-Skid Texture		
	Finish	Powder Coat Black		
Manifold	Construction	Black Anodized Aluminum		
	Valves	N/A		
Cylinders	Angle Cylinders	2	2	
	Stroke	9-3/8"	10"	
	Rod Diameter	1-3/4"	1-3/4"	
	Bore Diameter	2"	2"	
Snowplow Specs	Weight*	895 lb	944 lb	885 lb
	BUCKET BLADE™ Position Width	91" (7'-7")	103" (8'-7")	
	Angle Width w/Trailing Wing	79" (6'-7")	94" (7'-10")	
	Back Blade Width	103" (8'-7")	117" (9'-9")	
	Adjustable Plow Shoes	(2) Heavy-Duty Cast Steel	(2) Heavy-Duty Cast Steel	
	Mount Mechanism	Universal Attachment Plate	Universal Attachment Plate	
	Control	Hydraulic from Tractor System	Hydraulic from Tractor System	

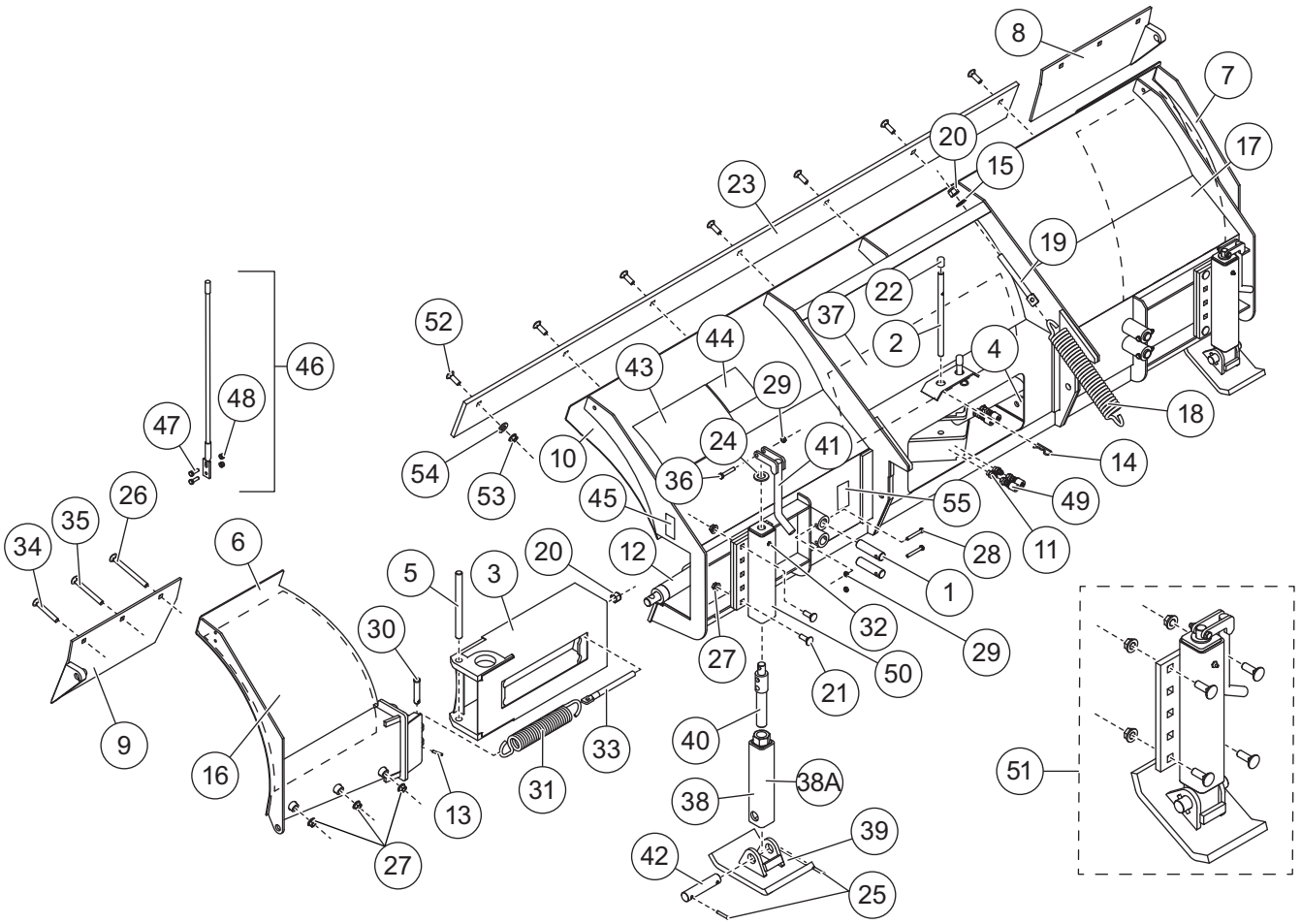
* Weight does not include hydraulic fluid.



If you have followed all of the guidelines in the Maintenance Section of this manual and cannot resolve issues with the operation of your BLIZZARD® snowplow, contact one of our authorized outlets for repair information, or visit us online at *www.blizzardplows.com*. Our Web site has a complete listing of authorized outlets in your area as well as a library of service information to assist the qualified mechanic with repair.

Blizzard does not recommend repairs by other than our authorized outlets. Failure to use an authorized outlet could affect the warranty coverage on your snowplow.

MOLDBOARD & WING PARTS – 810TR & 8611TR MODELS



Item	Part	Qty 810TR	Qty 8611TR	Description
1	B61681	4	4	Pin, Wing Stop
2	B11989	2	2	5/8 x 11-1/2 Pin, Hydraulic Cylinder Base End - Slide Box Extend/Retract
3	B50057	1	–	Slide Box – DS
	B50075	–	1	Slide Box – DS
4	B50058	1	–	Slide Box – PS
	B50074	–	1	Slide Box – PS
5	B51009	2	–	3/4 x 9 Pin, Wing/Slide Box Pivot
	B13307	–	2	1 x 11-1/8 Pin, Wing/Slide Box Pivot
6	B51042	1	–	Wing – DS
	B51100	–	1	Wing – DS
7	B51043	1	–	Wing – PS
	B51101	–	1	Wing – PS
8	B51047	1	–	Cutting Edge, Wing – PS
	B51070	–	1	Cutting Edge, Wing – PS
9	B51048	1	–	Cutting Edge, Wing – DS
	B51069	–	1	Cutting Edge, Wing – DS
10	B52149	1	–	Moldboard
	B52142	–	1	Moldboard

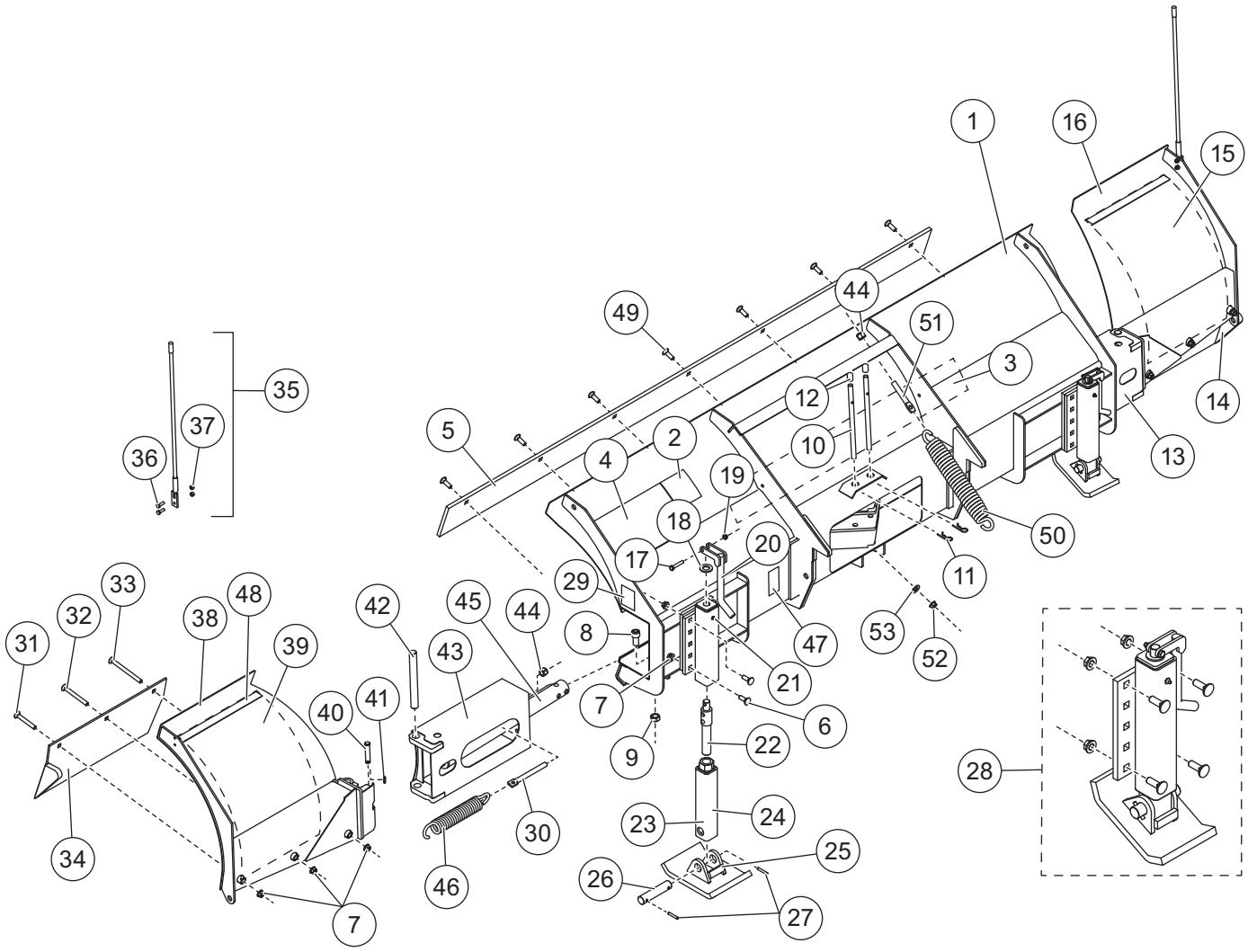
G = Grade

Item	Part	Qty 810TR	Qty 8611TR	Description
11	B60007	4	–	9/16-18 Male ORB Hydraulic Adapter
	56695	–	4	45° Elbow –6M O-Ring/MJIC
12	B60347	2	–	Hydraulic Cylinder, Slide Box Extend/Retract
	B60207	–	2	Hydraulic Cylinder, Slide Box Extend/Retract
13	B61028	2	2	1/4 x 1-1/4 Pin
14	B61030	2	2	1/8 x 2-5/8 Hair Cotter Pin
15	90576	4	6	5/8 Hardened Washer
16	96325	1	–	Label, Wing – DS
	96329	–	1	Label, Wing – DS
17	96326	1	–	Label, Wing – PS
	96330	–	1	Label, Wing – PS
18	23039	4	6	Trip Spring
19	B61187	4	6	5/8-11 x 6-3/8 Spade Bolt G8
20	91337	6	8	5/8-11 Locknut
21	B61196	8	8	1/2-13 x 1-1/2 Carriage Bolt G8
22	B61198	2	2	5/8 ID, 3/4 OD x 1 Cap, Black Vinyl
23	B61292	1	–	Cutting Edge
	B52139	–	1	Cutting Edge
24	63575	2	2	3/4 Hardened Washer
25	B61341	4	4	1/4 x 1-1/2 Spring Pin
26	B61361	2	–	1/2-13 x 5-1/2 Carriage Bolt G8
	B61362	–	2	1/2-13 x 6-1/2 Carriage Bolt G8
27	B61365	14	14	1/2-13 Flanged Locknut
28	B61383	4	4	5/16-18 x 2-1/4 Hex Cap Screw G8
29	B61384	6	6	5/16-18 Locknut G8
30	B61385	2	2	5/8 x 3 Clevis Pin
31	B61398	2	–	13 x 2 x 5/16 Extension Spring
	23039	–	2	Spring
32	B61400	2	2	1/8 NPT Grease Fitting
33	B61416	2	2	5/8-11 x 7-3/8 Spade Bolt G8
34	B61418	2	–	1/2-13 x 3-1/2 Carriage Bolt G8
	B61360	–	2	1/2-13 x 5 Carriage Bolt G8
35	B61419	2	–	1/2-13 x 4-1/2 Carriage Bolt G8
	B61361	–	2	1/2-13 x 5-1/2 Carriage Bolt G8
36	66435	2	2	5/16-18 x 1-3/4 Hex Cap Screw G5
37	B63160	1	1	Label, Center Moldboard (BLZ 1070)
38A	B70249	2	2	Shoe Assembly
38	B70251	2	2	Shoe Stem, Inner
39	B70261	2	2	Shoe, Adjustable
40	B70262	2	2	Plow Shoe Rod, Adjustable
41	B70281	2	2	Plow Shoe Handle, Adjustable
42	B70285	2	2	Plow Shoe Pin, Adjustable
43	44832	1	1	Label – Mount & Dismount
44	59900	1	1	Label – Warning/Caution
45	29593	2	2	Label – Multiple Pinch Points (BLZ 1068)

G = Grade

Item	Part	Qty 810TR	Qty 8611TR	Description
46	B61049	1	1	Snowplow Guide Assembly (2)
47	68494	4	4	5/16-18 x 1 Hex Cap Screw G5
48	91332	4	4	5/16-18 Locknut Topring
49	B60224	4	4	3/8 x 36 Hydraulic Hose, Slide Box Extend/Retract
50	96192	2	2	Bolt-On Jack
51	96190	2	2	Bolt-On Jack Assembly, complete
52	90238	7	–	1/2-13 x 1-3/4 Carriage Bolt G8
	80238	–	7	5/8-11 x 2 Carriage Bolt G8
53	91335	7	–	1/2-13 Hex Locknut Topring GB
	91337	–	7	5/8-13 Hex Locknut Topring GB
54	90572	7	–	1/2 Hardened Flat Washer
	90576	–	7	5/8 Hardened Flat Washer
55	29256	2	2	Label – Foot Crush Hazard
				G = Grade

MOLDBOARD & WING PARTS – 8100TR MODEL



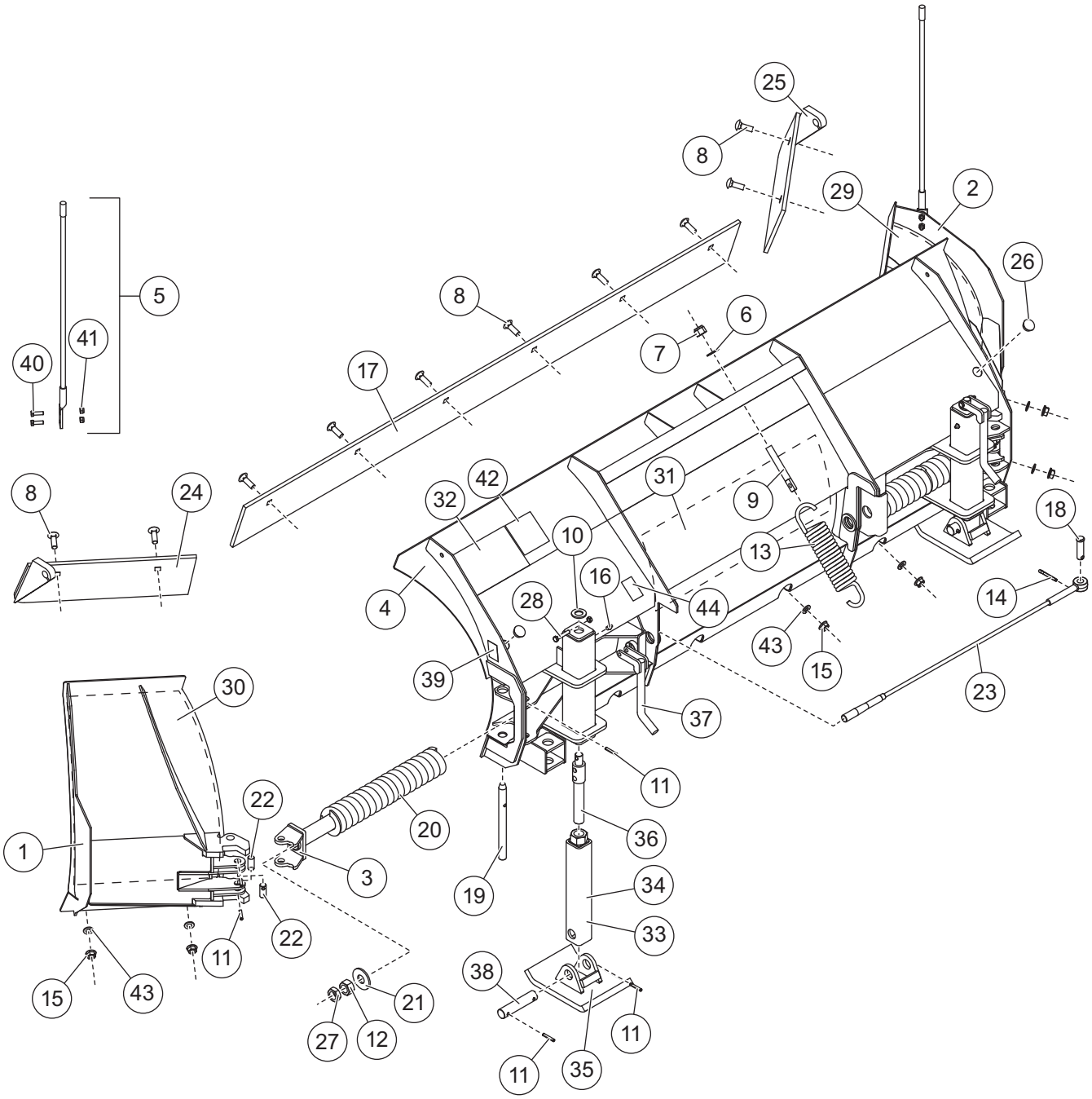
Item	Part	Qty	Description
1	41173	1	Moldboard
2	59900	1	Label – Information (Warning)
3	B63160	1	Label – POWER PLOW™ Center
4	44832	1	Label – TR Mount/Dismount
5	B61292	1	1/2" Moldboard Cutting Edge
6	B61196	8	1/2-13 x 1-1/2 Carriage Bolt G8
7	B61365	14	1/2-13 Flanged Locknut
8	B61618	2	3/4-10 x 1-1/2 Screw
9	B61593	2	3/4-10 Hex Locknut G8
10	B11989	2	5/8 x 11-1/2 Pin, Hydraulic Cylinder Base End – Slide Box Extend/Retract
11	B61030	2	1/8 x 2-5/8 Hair Cotter Pin
12	B61198	2	5/8 ID, 3/4 OD x 1 Black Vinyl Cap
13	B55066	1	Slide Box – PS

ns = not shown G = Grade ‡ = Accessory Only

Item	Part	Qty	Description
14	B51047	1	Wing Cutting Edge – PS
15	96326	1	Wing Label – PS
16	40740	1	Wing – PS
17	66435	2	5/16-18 x 1-3/4 Hex Cap Screw G5
18	63575	2	3/4 Hardened Washer
19	B61384	6	5/16-18 Locknut GC
20	B70281	2	Plow Shoe Handle, Adjustable
21	B61400	2	1/8 NPT Grease Fitting
22	B70262	2	Plow Shoe Rod, Adjustable
23	B70251	2	Shoe Stem, Inner
24	B70249	2	Shoe Assembly
25	B70261	2	Shoe, Adjustable
26	B70285	2	Plow Shoe Pin, Adjustable
27	B61341	4	1/4 x 1-1/2 Spring Pin
28	96190	2	Bolt-On Jack Assembly, Complete
29	29593	4	Label – Multiple Pinch Points
30	90490	2	5/8-11 x 4 Eyebolt G2
31	B61418	2	1/2-13 x 3-1/2 Carriage Bolt G8
32	B61419	2	1/2-13 x 4-1/2 Carriage Bolt G8
33	B61622	2	1/2-13 x 5-3/4 Carriage Bolt G8
34	B51048	1	Wing Cutting Edge – DS
35	B61049	1	Plow Guide Assembly (set of 2)
36	68494	4	5/16-18 x 1 Hex Cap Screw G5
37	91332	4	5/16-18 Hex Locknut GB
38	40739	1	Wing – DS
39	96325	1	Wing Label – DS
40	B61385	2	5/8 x 3 Clevis Pin
41	90601	2	1/4 x 1-1/2 Cotter Pin
42	B55042	2	Wing Pivot Pin
43	B55065	1	Slide Box – DS
44	91337	6	5/8-11 Hex Locknut GB
45	B60347	2	Slide Box Extend/Retract Hydraulic Cylinder
46	B61167	2	3/8 x 2-5/8 x 12-1/2 Extension Spring
47	29256	2	Label – Foot Crush Hazard
48	50639	2	Wear Strip – Wing Top
49	90238	7	1/2-13 x 1-3/4 Carriage Bolt G8
50	23039	4	Trip Spring
51	B61416	4	5/8-11 x 7-3/8 Eyebolt G2
52	91335	7	1/2-13 Hex Locknut Topring GB
53	90572	7	1/2 Hardened Flat Washer

ns = not shown G = Grade ‡ = Accessory Only

MOLDBOARD & WING PARTS – 760TR & 860TR MODELS



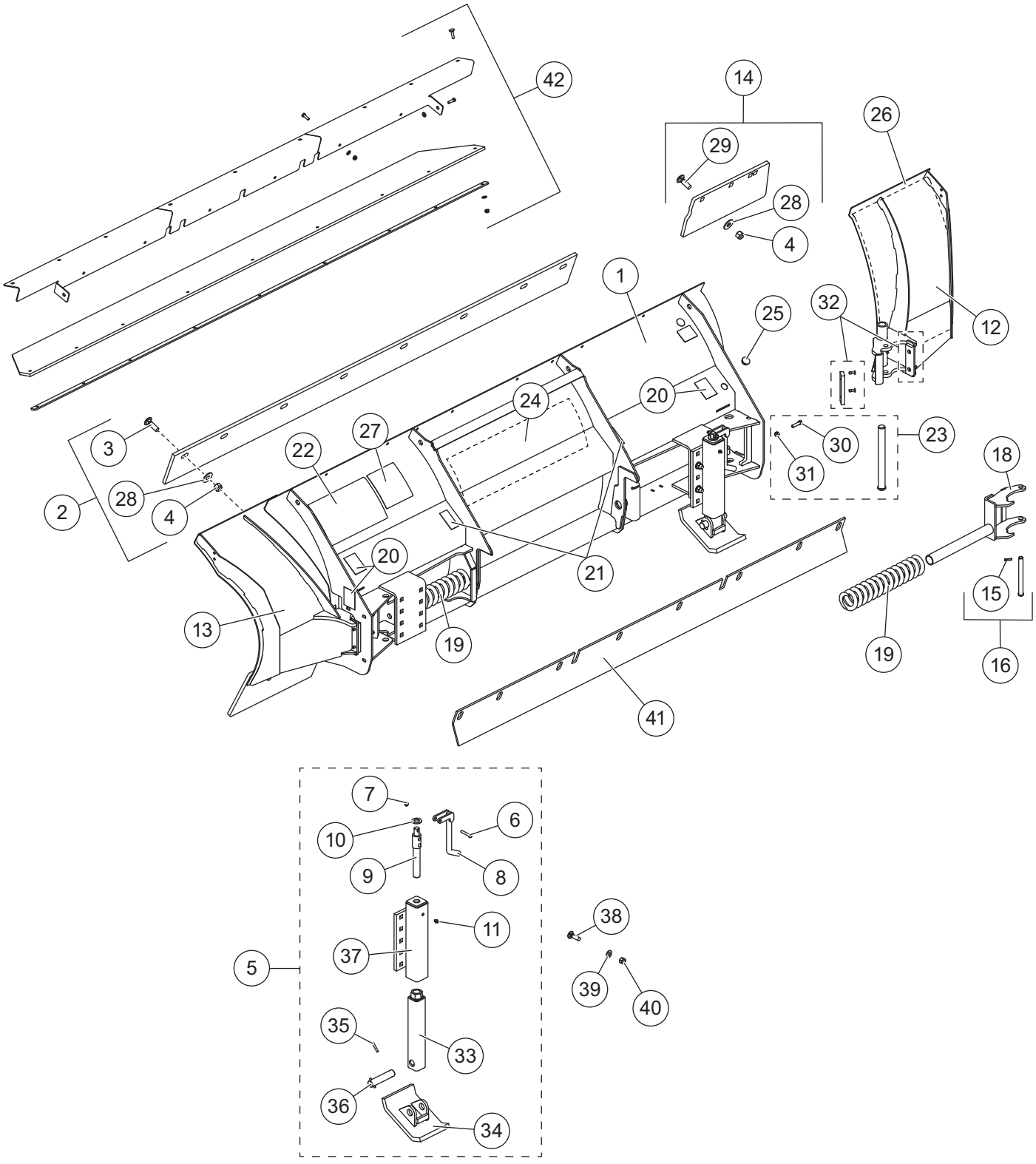
Item	Part	Qty 760TR	Qty 860TR	Description
1	B53021	1	–	Wing – DS
	B53062-1	–	1	Wing – DS
2	B53033	1	–	Wing – PS
	B53075-1	–	1	Wing – PS
3	B53076	2	2	Spring Guide
4	B53092	1	–	Moldboard
	B53091	–	1	Moldboard

G = Grade SS = Stainless Steel

Item	Part	Qty 760TR	Qty 860TR	Description
5	B61049	1	1	Plow Guide Assembly (2)
6	90576	3	4	5/8 Hardened Washer
7	91337	3	4	5/8-11 Locknut
8	90238	10	11	1/2-13 x 1-3/4 Carriage Bolt G8
9	90490	3	4	5/8-11 x 4 Eyebolt G2
10	63575	2	2	3/4 Hardened Washer
11	B61341	10	10	1/4 x 1-1/2 Spring Pin
12	B61343	2	2	3/4-10 Hex Nut
13	B61351	3	–	Trip Spring
	B61099	–	4	Trip Spring
14	90601	2	2	1/4 x 1-1/2 Cotter Pin
15	91335	10	11	1/2-13 Hex Locknut Topring GB
16	B61400	2	2	1/8 Grease Fitting
17	B61561	1	–	Cutting Edge
	B61570	–	1	Cutting Edge
18	B61563	2	2	5/8 x 3-3/8 Clevis Pin
19	B61564	2	–	Wing Mount Pin
	B61572	–	2	Wing Mount Pin
20	69695	2	2	Compression Spring
21	B61576	2	2	3/4 Hardened Washer, SS
22	B61577	4	4	Wing Spring Mount Pin
23	B61578	2	–	Cable Assembly
	B61573	–	2	Cable Assembly
24	B61608	1	–	Wing Cutting Edge – DS
	B61610	–	1	Wing Cutting Edge – DS
25	B61609	1	–	Wing Cutting Edge – PS
	B61611	–	1	Wing Cutting Edge – PS
26	B61614	2	2	1" Finishing Plug
27	B61615	2	2	3/4-10 Hex Jam Nut
28	66435	2	2	5/16-18 x 1-3/4 Hex Cap Screw G5
29	B63171	1	–	Label, Wing – PS
	96328	–	1	Label, Wing – PS
30	96323	1	–	Label, Wing – DS
	96327	–	1	Label, Wing – DS
31	B63175	1	1	Label, Center Moldboard (BLZ 1085)
32	44832	1	1	Label – Mount & Dismount
33	B70249	2	2	Shoe Assembly
34	B70251	2	2	Shoe Stem, Inner
35	B70261	2	2	Shoe, Adjustable
36	B70262	2	2	Plow Shoe Rod, Adjustable
37	B70281	2	2	Plow Shoe Handle, Adjustable
38	B70285	2	2	Plow Shoe Pin, Adjustable
39	29593	2	2	Label – Multiple Pinch Points (BLZ 1068)
40	68494	4	4	5/16-18 x 1 Hex Cap Screw G5
41	91332	4	4	5/16-18 Locknut Topring
42	59900	1	1	Label – Warning/Caution
43	90572	10	11	1/2 Hardened Flat Washer
44	29256	2	2	Label – Foot Crush Hazard

G = Grade SS = Stainless Steel

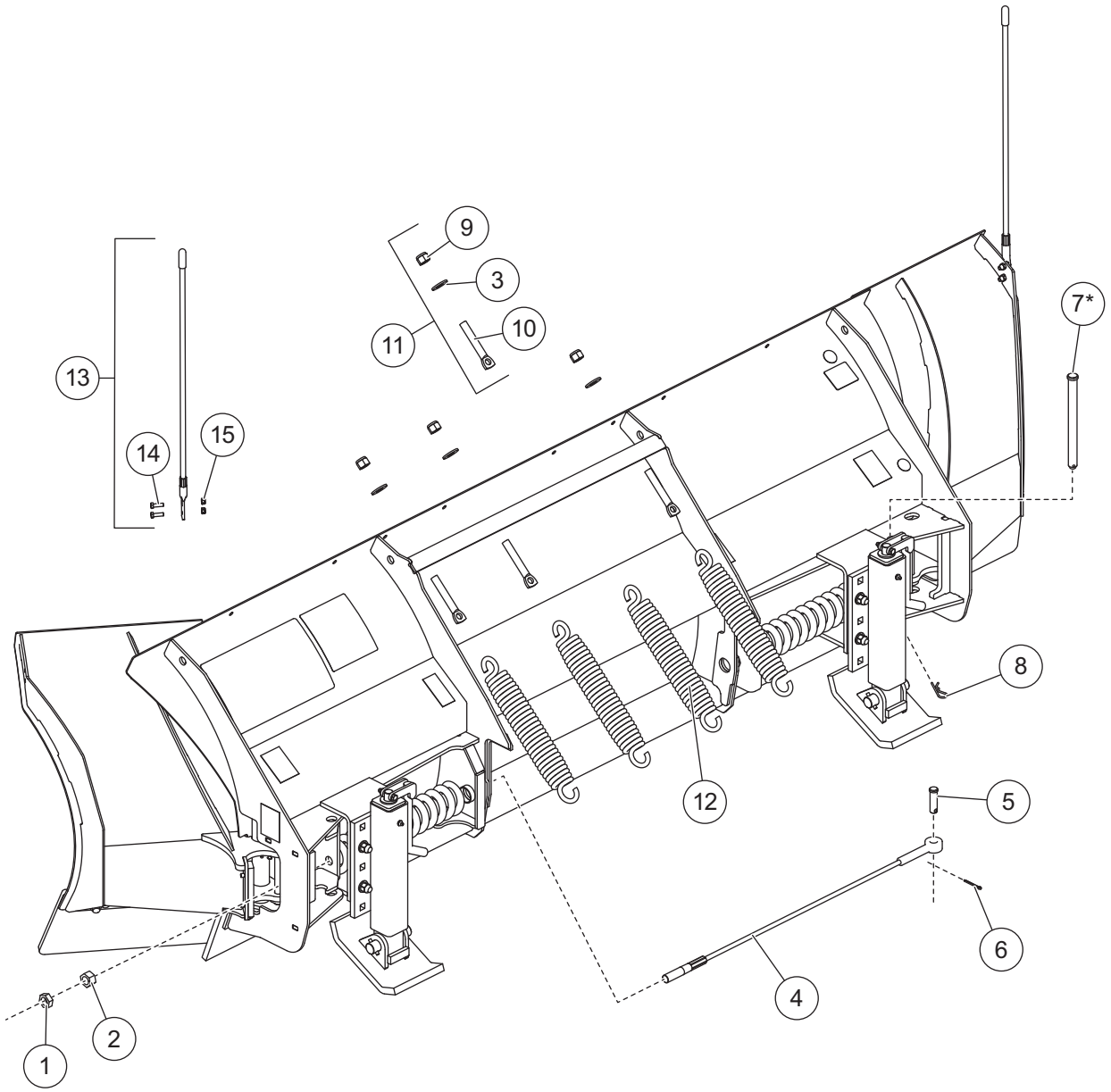
BLADE ASSEMBLY – 8600TR MODEL



BLADE ASSEMBLY – 8600TR MODEL

42408 Blade Assembly			
Item	**Part**	**Qty**	**Description**
1	42409	1	Moldboard (w/labels)
2	49799	1	Moldboard Cutting Edge Kit
3	63986	8	5/8-11 x 2-1/2 Carriage Bolt G5
4	91337	14	5/8-11 Hex Locknut GB
5	96190	2	Bolt-On Jack Assembly, Complete
6	66435	2	5/16-18 x1-3/4 hex Cap Screw G5
7	B61384	2	5/16-18 Locknut G8
8	B70281	2	Plow Shoe Handle, Adjustable
9	B70262	2	Plow Shoe Rod
10	63575	2	3/4 Hardened Washer
11	B61400	2	1/8 Grease Fitting NPT
ns	42941	1	Label – Moldboard Wing DS
12	42942	1	Label – Moldboard Wing PS
13	42385	1	Wing – DS
14	42383	1	Wing Cutting Edge Kit (both DS and PS)
15	42943	2	1/4 x 1 Coiled Spring Pin
16	42397	2	Spring Guide Pin Kit
ns	42392	1	Spring Guide DS
18	42393	1	Spring Guide PS
19	42725	2	Compression Spring
20	29593	4	Label – Multiple Pinch Points
21	29256	2	Label – Foot Crush Hazard
22	44832	1	Label – TR Mount/Dismount
23	42396	2	Hinge Pin Kit
24	B63175	1	Label, Center Moldboard (BLZ 1085)
25	B61614	2	Plug, Ø1.00 Finishing
26	42386	1	Wing – PS
27	59900	1	Label – Warning/Caution, Snowplows
28	90576	14	5/8 Hardened Flat Washer
29	5572	6	5/8-11 x 2 Carriage Bolt G5
30	66439	2	3/8-16 x 1-1/2 Hex Cap Screw G5
31	91333	2	3/8 -16 Hex Locknut GB
32	42395	4	Bumper Kit
33	B70251	2	Shoe Stem, Inner
34	B70261	2	Shoe
35	B61341	4	1/4 x 1-1/2 Spring Pin
36	B70285	2	Adjustable Plow Shoe Pin
37	96192	2	Bolt-On Jack
38	90238	8	1/2-13 x 1-3/4 Carriage Bolt G8
39	90572	8	1/2 Hardened Flat Washer
40	91335	8	1/2-13 Hex Locknut Topring GB
41‡	42382	1	Back Drag Edge
42‡	42384	1	Deflector Kit
ns‡	B52093	1	Snowplow Airfoil
	ns = not shown		‡ = Accessory Only G = Grade

BLADE COMPONENTS – 8600TR MODEL

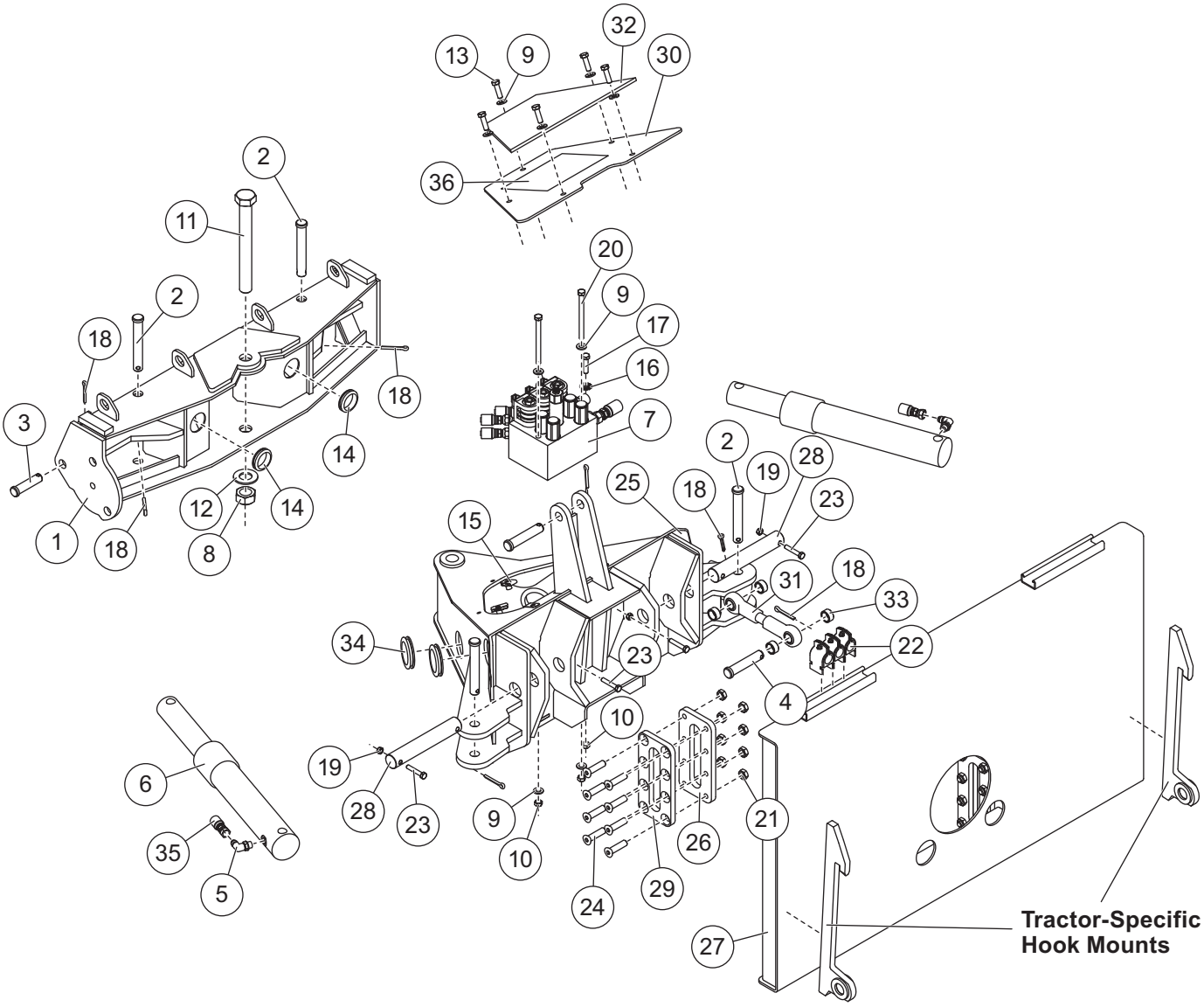


*** Pins used to lock wings in straight position**

BLADE COMPONENTS – 8600TR MODEL

Blade Components			
Item	**Part**	**Qty**	**Description**
1	B61615	2	3/4-10 Hex Jam Nut
2	B61343	2	3/4-10 Hex Nut
3	90576	4	5/8 Hardened Flat Washer
4	42389	2	Cable Assembly w/Hardware (incl. items 1, 2, 5 and 6)
5	B61563	2	Ø .625 x 2.33 Clevis Pin
6	90601	2	1/4 x 1-1/2 Cotter Pin
7	42738	2	3/4 x 9 Clevis Pin
8	91962	2	1/8 Hairpin Cotter
9	91337	4	5/8-11 Locknut
10	90490	4	5/8-11 x 4 Eyebolt G2
11	50655	4	Eyebolt Kit
12	23039	4	Trip Spring
13	B61049	2	Blade Guide Assembly
14	68494	4	5/16-18 x 1 Hex Cap Screw G5
15	91332	4	5/16-18 Hex Locknut GB
SS = Stainless Steel			

A-FRAME & PIVOT BEAM PARTS – 810TR & 8100TR MODELS

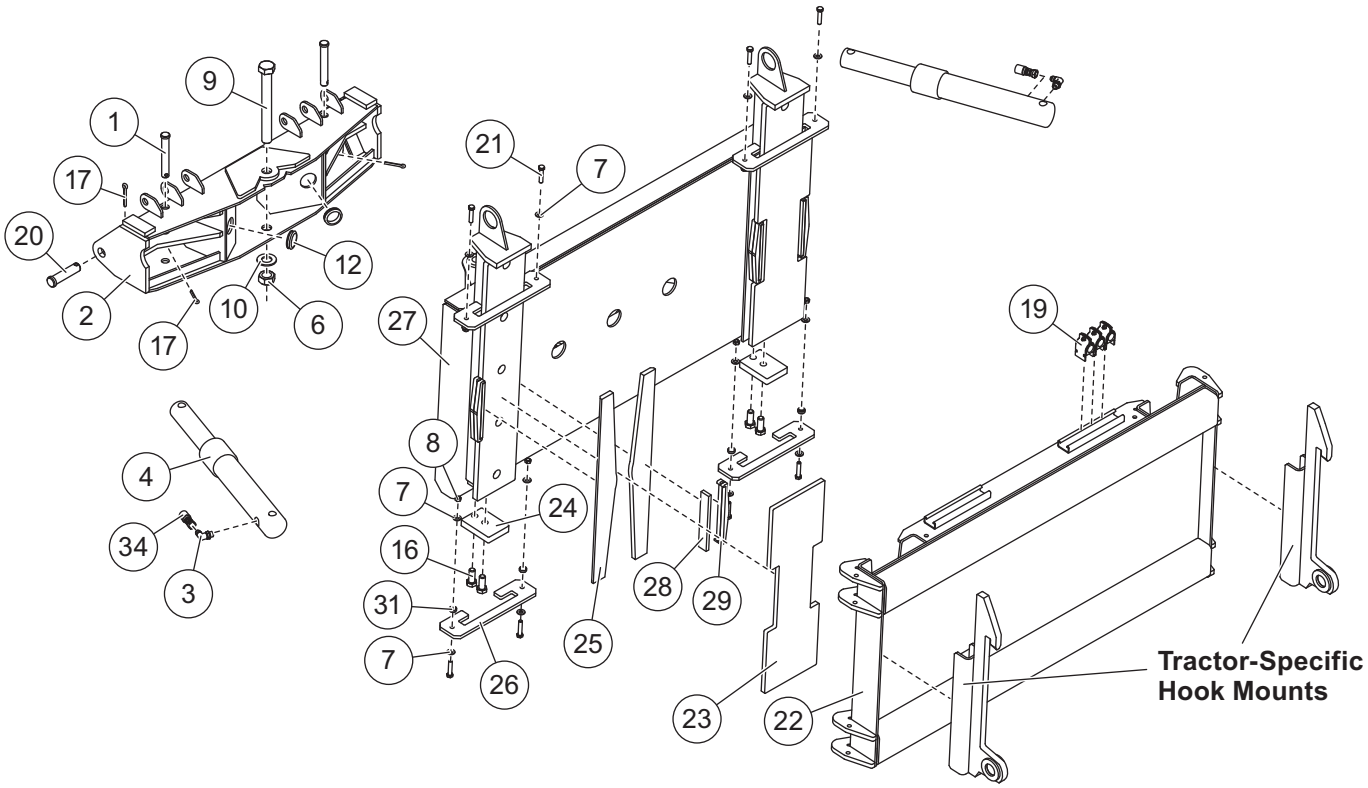


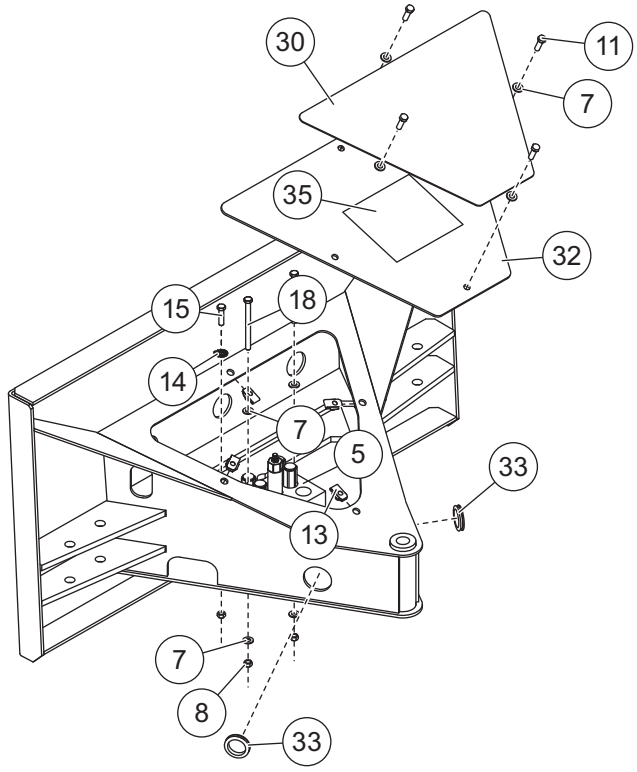
A-FRAME & PIVOT BEAM PARTS – 810TR & 8100TR MODELS

Item	Part	Qty 810TR	Description
1	B52151	1	Pivot Beam
2	95739	4	3/4 x 5 Clevis Pin
3	B50069	2	3/4 x 3 Clevis Pin
4	B50071	2	3/4 x 3-41/64 Clevis Pin
5	40571	2	9/16-18 90° ORB Hydraulic Adapter, Adjustable Elbow
6	B60029	2	Hydraulic Cylinder, Snowplow Angle
7	B60545	1	Manifold
8	B61008	1	1" Locknut GC
9	29233	9	3/8 Hardened Washer
10	B61034	3	3/8-16 Hex Nut GC
11	50605	1	1-8 x 9-1/2 Hex Cap Screw G5 Special
12	B61203	1	1" Washer
13	90055	5	3/8-16 x 1-1/4 Hex Cap Screw G8
14	B61217	2	1-1/2 ID, 2-1/8 OD Grommet, Black Rubber, 60 Durometer
15	B61275	5	3/8-16 U-Nut
16	B61307	1	3/8 Lockwasher, Internal/External Tooth
17	66439	1	3/8-16 x 1-1/2 Hex Cap Screw G5
18	90601	8	1/4 x 1-1/2 Cotter Pin
19	B61384	4	5/16-18 Hex Locknut G8
20	44413	2	3/8-16 x 4-1/2 Hex Cap Screw G5
21	B61638	16	1/2-13 Hex Jam Nut
22	B61644	3	Clamp
23	66435	4	5/16-18 x 1-3/4 Hex Cap Screw G5
24	B61720	16	1/2-13 x 2 Hex Flat Head Screw G8
25	B70265	1	A-Frame
26	B70272	2	A-Frame Mount Reinforcement
27	B70273	1	A-Frame Mount
28	B70277	2	Pivot Pin
29	B70278	2	A-Frame Mount Reinforcement
30	B70287	1	A-Frame Cover
31	B70291	1	A-Frame Bearing Rod Link
32	B70293	1	Grip Step Skid Mat
33	B70294	4	Spacer Bushing
34	B70295	4	A-Frame Grommet
35	B60223	2	3/8 x 26 Hydraulic Hose, Snowplow Angle
36	29328	1	Label – Hydraulic Guide, Tractor Plow POWER PLOW™ Models

G = Grade

A-FRAME & PIVOT BEAM PARTS – 8611TR MODEL



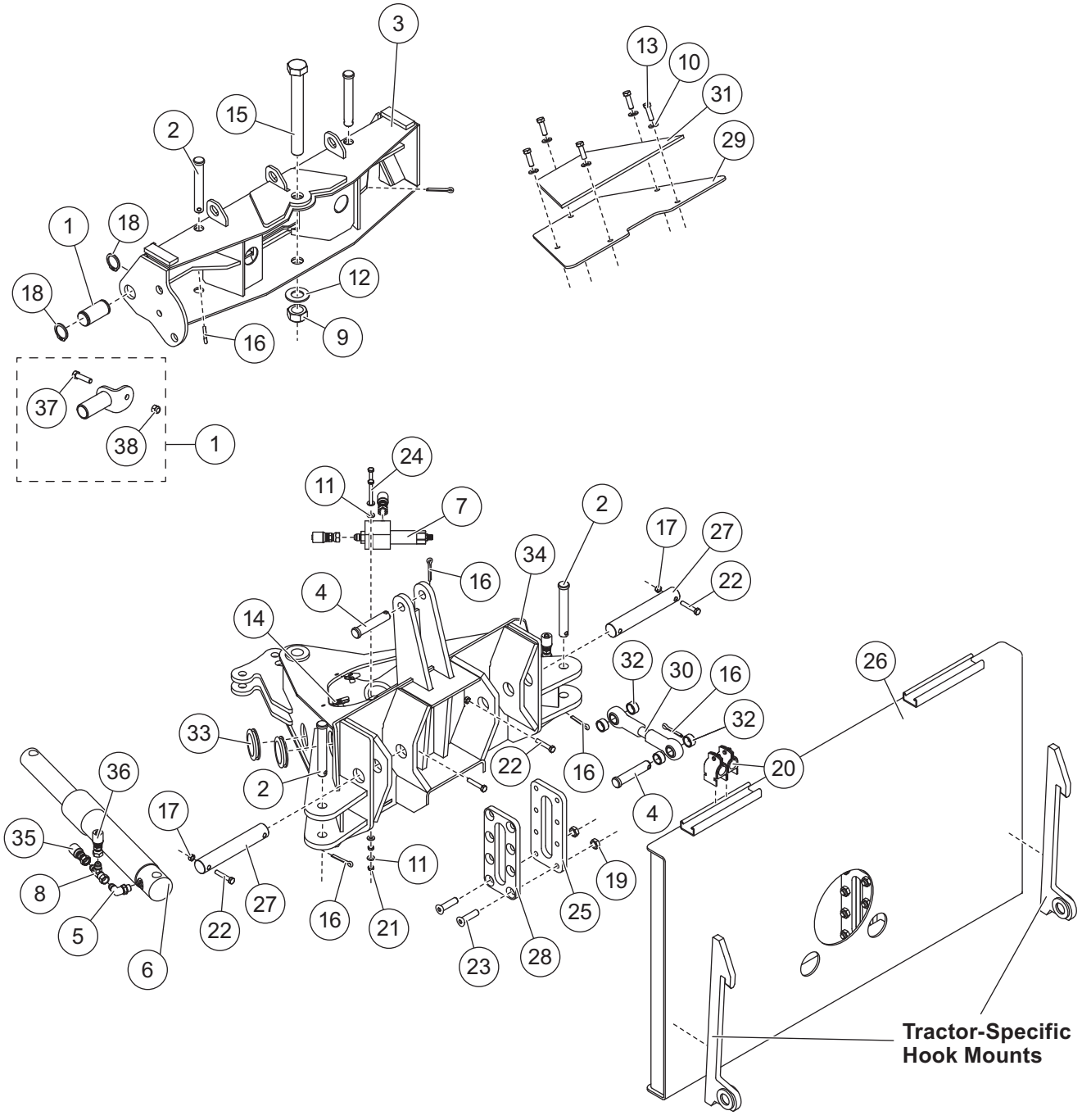


A-FRAME & PIVOT BEAM PARTS – 8611TR MODEL

Item	Part	Qty 8611TR	Description
1	95739	4	3/4 x 5 Clevis Pin
2	B41077	1	Pivot Beam
3	40571	2	9/16-18 90° ORB Hydraulic Adapter, Adjustable Elbow
4	B60324	2	Hydraulic Cylinder, Snowplow Angle
5	B60522	1	Manifold
6	B61008	1	1"-8 Locknut GC
7	29233	24	3/8 Hardened Washer
8	B61034	11	3/8-16 Hex Locknut
9	50605	1	1-8 x 9-1/2 Hex Cap Screw G5 Special
10	B61203	1	1" Washer
11	90055	4	3/8-16 x 1-1/4 Hex Cap Screw G8
12	B61217	2	1-1/2 ID, 2-1/8 OD Grommet, Black Rubber, 60 Durometer
13	B61275	4	3/8-16 U-Nut
14	B61307	1	3/8 Lockwasher, Internal/External Tooth
15	66439	1	3/8-16 x 1-1/2 Hex Cap Screw G5
16	80239	4	5/8-11 x 1-1/2 Hex Cap Screw G8
17	90601	6	1/4 x 1-1/2 Cotter Pin
18	44413	2	3/8-16 x 4-1/2 Hex Cap Screw G5
19	B61644	3	Clamp
20	B61717	2	1 x 3-1/4 Clevis Pin
21	90118	8	3/8-16 x 1-3/4 Hex Cap Screw G5
22	B70089	1	Receiver
23	B70102	2	Back Wear Plate
24	B70103	2	Slide Stop Plate
25	B70104	4	Front Wear Plate
26	B70105	4	Hitch Wear Pad
27	B70106	1	A-Frame
28	B70121	4	Side Wear Plate
29	B70122	4	Side Wear Pad Retainer
30	B70143	1	Rubber A-Frame Mat
31	B70240	8	0.75 OD x 0.44 ID x 0.25 Bushing
32	B70247	1	A-Frame Cover
33	B70295	2	A-Frame Grommet
34	B60224	2	3/8 x 36 Hydraulic Hose, Snowplow Angle
35	29328	1	Label – Hydraulic Guide, Tractor Plow POWER PLOW™ Models

G = Grade

A-FRAME & PIVOT BEAM PARTS – 760TR, 860TR & 8600TR MODELS

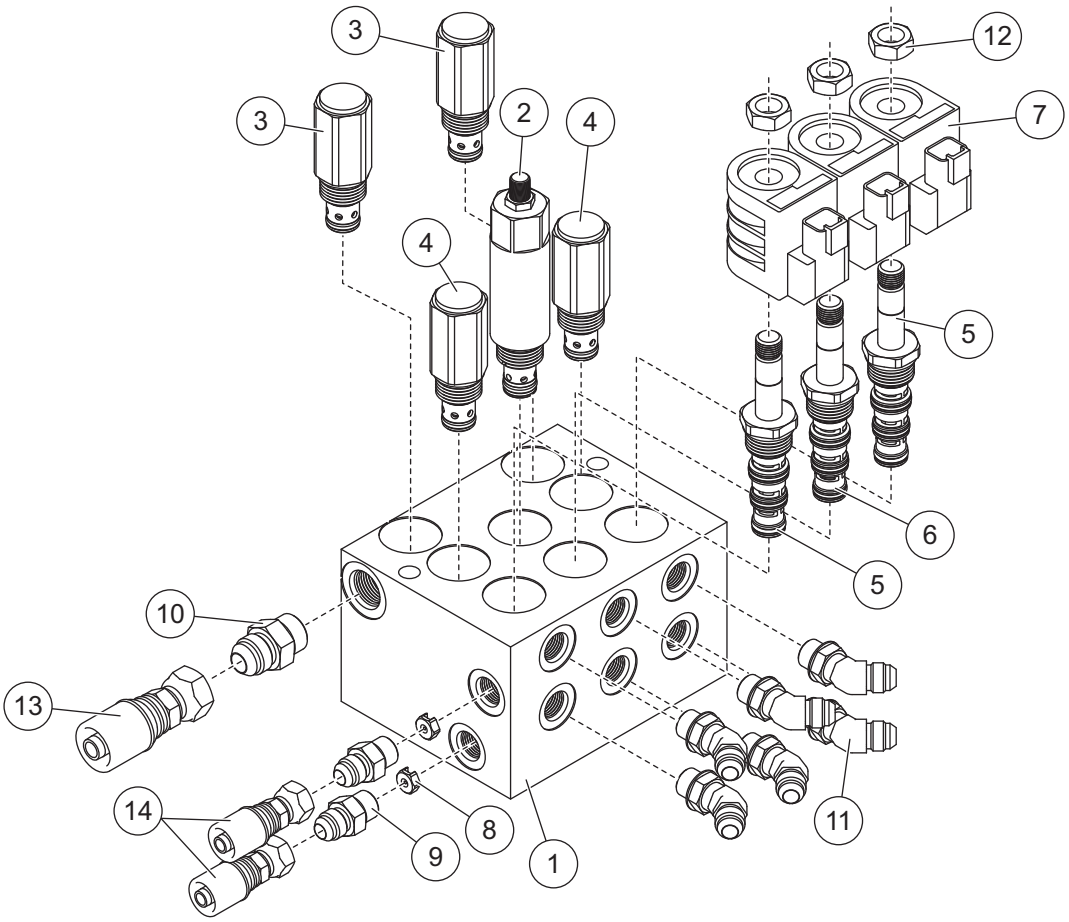


A-FRAME & PIVOT BEAM PARTS – 760TR, 860TR & 8600TR MODELS

Item	Part	Qty			Description
		760TR	860TR	8600TR	
1	B16536	2	2		Bushing, Plow Pivot
	42410			2	Pivot Bushing Kit
2	95739	4	4	4	3/4 x 5 Clevis Pin
3	B41056	1	–	–	Pivot Beam
	B41066	–	1	1	Pivot Beam
4	B50071	2	2	2	3/4 x 3-41/64 Clevis Pin
5	40571	2	2	2	9/16-18 90° ORB Hydraulic Adapter, Adjustable Elbow
6	B60065	2	–	–	Angle Cylinder
	B60029	–	2	2	Angle Cylinder
7	B60534	1	1	1	Manifold
8	B60539	2	2	2	Hydraulic Adapter, 6FJIC x 6MJIC x 6MJIC Run Tee
9	B61008	1	1	1	1"-8 Locknut GC
10	29233	5	5	5	3/8 Hardened Washer
11	B61039	4	4	4	1/4 Hardened Washer
12	B61203	1	1	1	1" Washer
13	90055	5	5	5	3/8-16 x 1-1/4 Hex Cap Screw G8
14	B61275	5	5	5	3/8-16 U-Nut
15	B61331	1	–	–	1-8 x 8-1/2 x 7-1/8 Hex Cap Screw
	50605	–	1	1	1-8 x 9-1/2 Hex Cap Screw G5 Special
16	90601	6	6	6	1/4 x 1-1/2 Cotter Pin
17	B61384	6	6	6	5/16-18 Hex Locknut
18	B61616	4	4	–	1-1/8 Retaining Ring, Heavy Duty
19	B61638	16	16	16	1/2-13 Hex Jam Nut
20	B61644	2	2	2	Clamp
21	91331	2	2	2	1/4-20 Hex Locknut
22	66435	4	4	4	5/16-18 x 1-3/4 Hex Cap Screw G5
23	B61720	16	16	16	1/2-13 x 2 Hex Flat Head Screw G8
24	94498	2	2	2	1/4-20 x 2-1/4 Hex Cap Screw
25	B70272	2	2	2	A-Frame Mount Reinforcement
26	B70273	1	1	1	A-Frame Mount
27	B70277	2	2	2	Pivot Pin
28	B70278	2	2	2	A-Frame Mount Reinforcement
29	B70287	1	1	1	A-Frame Cover
30	B70291	1	1	1	A-Frame Bearing Rod Link
31	B70293	1	1	1	Grip Step Skid Mat
32	B70294	4	4	4	Spacer Bushing
33	B70295	4	4	4	A-Frame Grommet
34	B70324	1	–	–	A-Frame
	B70320	–	1	1	A-Frame
35	B60224	2	2	2	3/8 x 36 Hydraulic Hose, Snowplow Angle Relief
36	B60473	2	2	2	3/8 x 115 Hydraulic Hose, Snowplow Angle Pressure
37	66439	–	–	2	3/8-16 x 1-1/2 Hex Cap Screw G5
38	91333	–	–	2	3/8-16 Locknut Topring GB

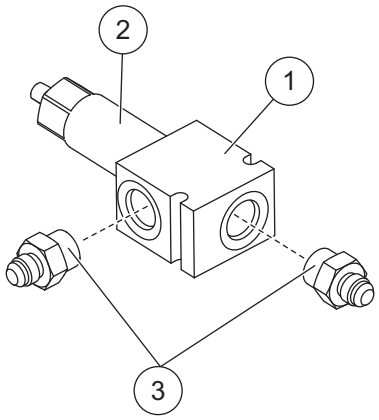
G = Grade

MANIFOLD PARTS – 810TR, 8100TR & 8611TR MODELS

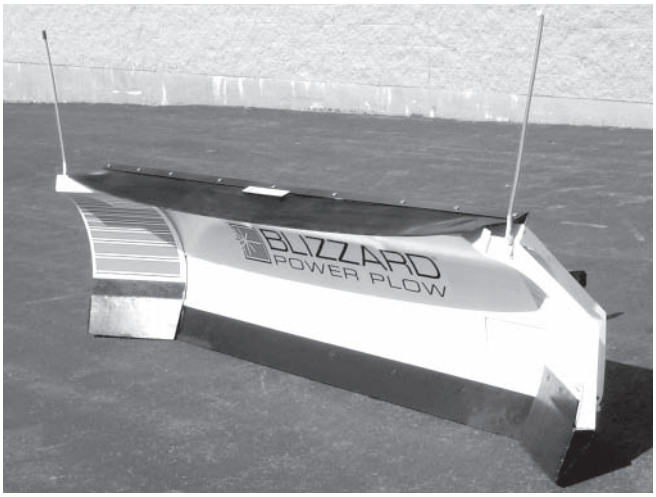


Item	Part	Qty 810TR	Qty 8611TR	Description
1	B60545	1	–	Manifold Assembly
	B60522	–	1	Manifold Assembly
2	B60168	1	1	Relief Valve – 3000 psi
3	B60278	2	–	Relief Valve – 1700 psi
	B60226	–	2	Relief Valve – 2800 psi
4	B60279	2	–	Relief Valve – 1500 psi
	B60227	–	2	Relief Valve – 2650 psi
5	B60528	2	2	Cartridge Valve – 4-way, 2-position
6	B60529	1	1	Cartridge Valve – 4-way, 2-position
7	B62263	3	3	Coil, 12V DC
8	B60530	2	2	Orifice Disc Ø.060
9	B60007	2	2	9/16-18 Male ORB Hydraulic Adapter
10	B60340	1	1	8 Male ORB x 8 Male JIC Hydraulic Adapter
11	56695	6	–	45° Elbow –6M O-Ring/MJIC
	B60007	–	6	9/16-18 Male ORB Hydraulic Adapter
12	B60052	6	6	1/2-20 Hex Jam Nut
13	B60531	1	1	1/2 x 115 Hydraulic Hose, Tank Return
14	B60473	2	2	3/8 x 115 Hydraulic Hose, Pressure Lines

MANIFOLD PARTS – 760TR, 860TR & 8600TR MODELS

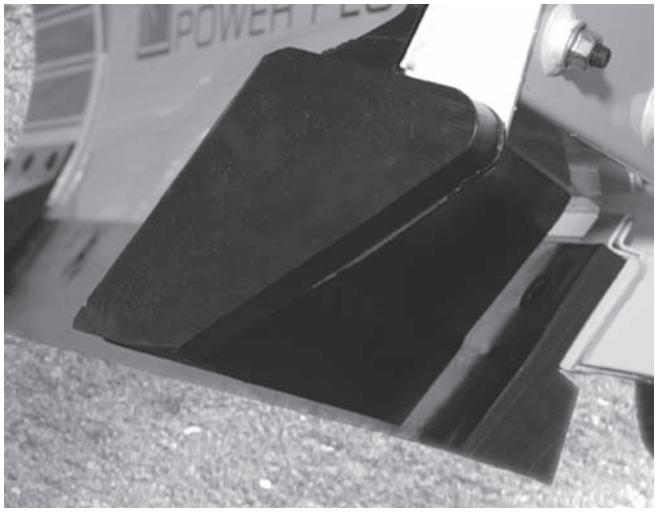


Item	Part	Qty		Description
		760TR	860TR & 8600TR	
1	B60534	1	1	Manifold Assembly
2	B60168	1	1	Relief Valve – 3000 psi
3	B60403	2	2	8 Male ORB x 6 Male JIC Hydraulic Adapter

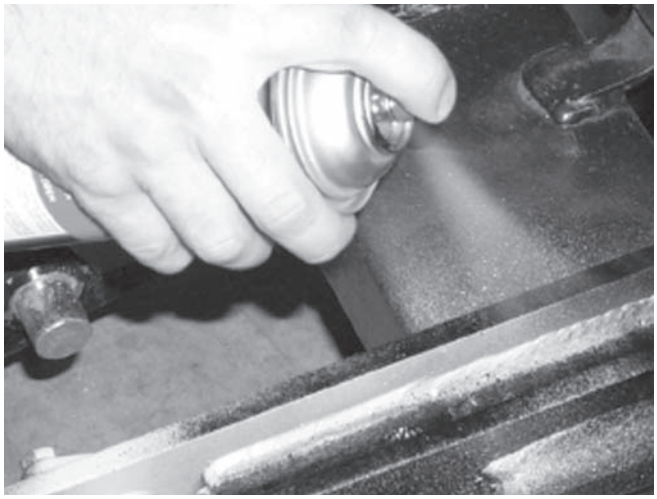


1. Rugged and durable, the 3/8" thick, 2-ply Rubber Snow Deflector keeps snow off your windshield and in its place—on the ground! The one-piece design allows for wing clearance and provides optimum snow deflection. The deflector is shipped with a vinyl label and complete mounting hardware.

2. Beef-up your snowplow with our 3/8" thick wing cutting edges. These edges are built to withstand heavy snowplow use on the roughest road surfaces and also provide added material for protection against sidewalk curb wear. Mounting hardware included.



3. Durable and long lasting, the POWER PLOW polyurethane moldboard and wing cutting edges will keep you plowing longer and safer! Specially formulated for snowplowing applications, BLIZZARD® poly edges resist gouging, provide superior wear life and effectively reduce plowing noise. Ideal for all plowing conditions. Edges are shipped with mounting hardware.



4. Putting your snowplow away for the winter? Have a deep scratch to cover? Clean up your blade and snowplow parts with our gloss spray paints. BLIZZARD touch-up paint provides an excellent finish to help keep your snowplow looking its best. Paint provided in 12 oz spray cans.

Item	Part	Quantity						Description
		810TR	8100TR	8611TR	760TR	860TR	8600TR	
1	B61241	1	1	–	–	–	–	Rubber Snow Deflector w/Hardware
	B52087	–	–	1	–	–	–	Rubber Snow Deflector w/Hardware
	42384	–	–	–	–	–	1	Rubber Snow Deflector w/Hardware
2	B61288	1	1	–	–	–	–	3/8 Wing Cutting Edges w/Hardware (T1)
	B51114	–	–	1	–	–	–	Extended-Wear Wing Cutting Edges
3	B61536	1	1	–	–	–	–	Poly Moldboard & Wing Cutting Edges w/Hardware
	B61539	–	–	1	–	–	–	Poly Moldboard & Wing Cutting Edges w/Hardware
4	B61219	1	1	1	1	1	1	BLIZZARD® High-Performance Spray Paint, White
	B63073	1	1	1	1	1	1	BLIZZARD High-Performance Spray Paint, Black
ns	42382	–	–	–	–	–	1	Back Drag Edge
ns	B21034	–	–	–	1	1	1	SPEEDWING™ Spring Tool
					Kits			
ns	B61277‡	1	1	–	–	–	–	Hardware Kit, Snowplow Assembly Parts
ns	B61665‡	–	1	–	–	–	–	Hardware Kit, Snowplow Assembly Parts
ns	B61479	–	–	1	–	–	–	Hardware Kit, Snowplow Assembly Parts
ns	B61724‡	–	–	–	1	–	–	Hardware Kit, Snowplow Assembly Parts
ns	B61723‡	–	–	–	–	1	–	Hardware Kit, Snowplow Assembly Parts
ns	42416‡	–	–	–	–	–	1	Hardware Kit, Snowplow Assembly Parts
ns	B60535**	1	1	–	–	–	–	Hydraulic Adapter Kit (incl. 40571 [2], B60007 [4],56695 [6], B60340 [1])
ns	B60532**	–	–	1	–	–	–	Hydraulic Adapter Kit (incl. 40571 [2], B60007 [6], 56695 [4], B60340 [1])
ns	B60540	–	–	–	1	1	1	Hydraulic Adapter Kit (incl. 40571 [2], B60403 [2], B60539 [2])
ns	B60536	1	1	–	–	–	–	Hydraulic Hose Kit (incl. B60223 [2], B60224 [4], B60473 [2], B60531 [1])
ns	B60533	–	–	1	–	–	–	Hydraulic Hose Kit (incl. B60224 [1], B60473 [2], B60531 [1])
ns	B60541	–	–	–	1	1	1	Hydraulic Hose Kit (incl. B60224 [2], B60473 [2])
ns	B61255	1	1	1	1	1	–	Hardware Kit, Moldboard Cutting Edge
ns	B52067	1	1	–	–	–	–	Moldboard Cutting Edge Kit w/Hardware
ns	B52095	–	–	1	–	–	–	Moldboard Cutting Edge Kit w/Hardware
ns	B61647	–	–	–	1	–	–	Moldboard Cutting Edge Kit w/Hardware
ns	B61648	–	–	–	–	1	–	Moldboard Cutting Edge Kit w/Hardware
ns	49799	–	–	–	–	–	1	Moldboard Cutting Edge Kit w/Hardware
ns	B61431	1	1	–	–	–	–	Hardware Kit, Wing Cutting Edge
ns	B61387	–	–	1	–	–	–	Hardware Kit, Wing Cutting Edge
ns	B61646	–	–	–	1	1	–	Hardware Kit, Wing Cutting Edge
ns	B51104	1	1	–	–	–	–	Wing Cutting Edges Kit w/Hardware
ns	B51103	–	–	1	–	–	–	Wing Cutting Edges Kit w/Hardware
ns	B61649	–	–	–	1	–	–	Wing Cutting Edges Kit w/Hardware
ns	B61650	–	–	–	–	1	–	Wing Cutting Edges Kit w/Hardware
ns	42383	–	–	–	–	–	1	Wing Cutting Edged Kit w/Hardware
ns	B60360	1	1	–	1	1	1	Combo Seal Kit, Cyl B60029/B60065
ns	B60365	–	–	1	–	–	–	Combo Seal Kit, Cyl B60207
ns	B60366	–	–	1	–	–	–	Combo Seal Kit, Cyl B60221/B60324
ns	B60373	1	1	–	–	–	–	Combo Seal Kit, Cyl B60347

ns = not shown

** Does not include hydraulic adapters B60007 for manifold ports P2 & P3. ‡ Includes 56099 Dielectric Grease

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Milwaukee, WI 53224-9538
www.blizzardplows.com

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CE

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